



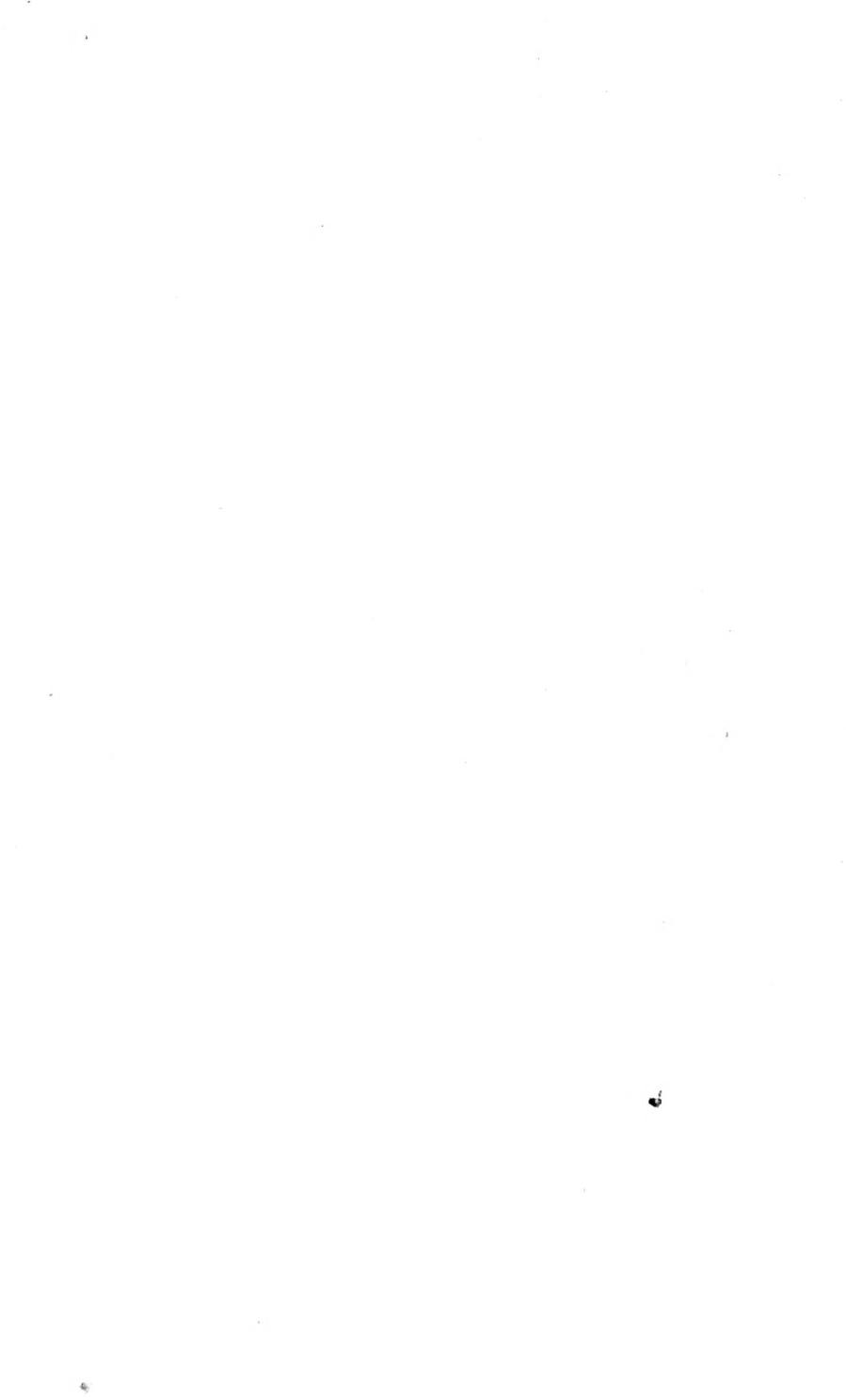
NOTICE

ALL INFORMATION CONTAINED

HEREIN IS UNCLASSIFIED

DATE 12-9-1991 BY 60322 UCBAW

DO NOT REMOVE  
FROM ARCHIVES





# NORTHEASTERN & UNIVERSITY &

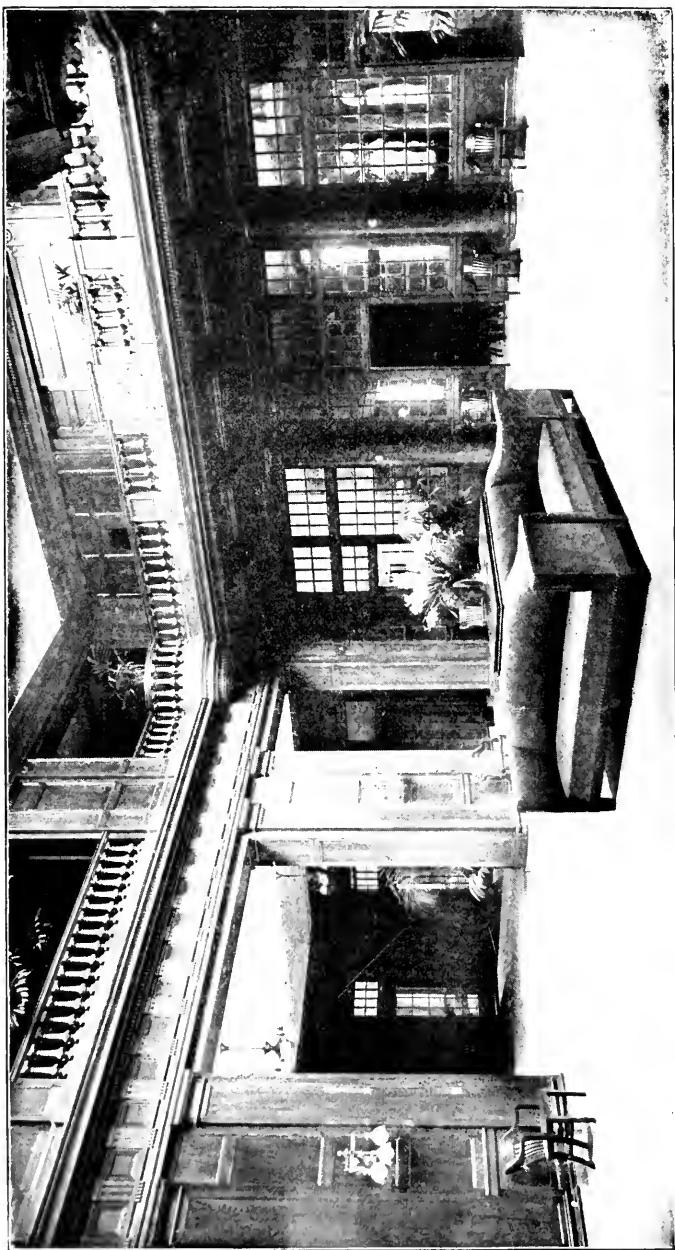
SCHOOL OF  
ENGINEERING  
1926-1927



NORTHEASTERN UNIVERSITY  
Boston Young Men's Christian Association  
Boston, Massachusetts







The Lobby

# Northeastern University

## SCHOOL OF ENGINEERING

*Co-operative Plan*  
*Full-Time Plan*



1926 - 1927

"PRACTICE AND THEORY CO-ORDINATED"

# SCHOOL CALENDAR

School Sessions (Co-operative Plan)  
for Upper Classmen

Engineering Practice Period  
for Upper Classmen

1926-1927

1926-1927

SEPTEMBER							MARCH								
S	M	T	W	T	F	S	S	M	T	W	T	F	S		
				1	2	3	4				1	2	3	4	5
5	6	7	8	9	10	11	12	6	7	8	9	10	11	12	13
12	13	14	15	16	17	18	19	13	14	15	16	17	18	19	20
19	20	21	22	23	24	25	26	20	21	22	23	24	25	26	27
26	27	28	29	30	...	...	...	27	28	29	30	31	...	...	...
OCTOBER							APRIL								
S	M	T	W	T	F	S	S	M	T	W	T	F	S		
						1	2						1	2	3
3	4	5	6	7	8	9	10	3	4	5	6	7	8	9	10
10	11	12	13	14	15	16	17	10	11	12	13	14	15	16	17
17	18	19	20	21	22	23	24	17	18	19	20	21	22	23	24
24	25	26	27	28	29	30	31	24	25	26	27	28	29	30	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
NOVEMBER							MAY								
S	M	T	W	T	F	S	S	M	T	W	T	F	S		
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8
7	8	9	10	11	12	13	14	8	9	10	11	12	13	14	15
14	15	16	17	18	19	20	21	15	16	17	18	19	20	21	22
21	22	23	24	25	26	27	28	22	23	24	25	26	27	28	29
28	29	30	...	...	...	...	...	29	30	31	...	...	...	...	...
DECEMBER							JUNE								
S	M	T	W	T	F	S	S	M	T	W	T	F	S		
				1	2	3	4				1	2	3	4	5
5	6	7	8	9	10	11	12	5	6	7	8	9	10	11	12
12	13	14	15	16	17	18	19	12	13	14	15	16	17	18	19
19	20	21	22	23	24	25	26	19	20	21	22	23	24	25	26
26	27	28	29	30	31	...	...	26	27	28	29	30	...	...	...
JANUARY 1927							JULY								
S	M	T	W	T	F	S	S	M	T	W	T	F	S		
						1	2						1	2	3
2	3	4	5	6	7	8	9	3	4	5	6	7	8	9	10
9	10	11	12	13	14	15	16	10	11	12	13	14	15	16	17
16	17	18	19	20	21	22	23	17	18	19	20	21	22	23	24
23	24	25	26	27	28	29	30	24	25	26	27	28	29	30	31
30	31	...	...	...	...	...	...	31	...	...	...	...	...	...	...
FEBRUARY							AUGUST								
S	M	T	W	T	F	S	S	M	T	W	T	F	S		
		1	2	3	4	5	6		1	2	3	4	5	6	7
6	7	8	9	10	11	12	13	7	8	9	10	11	12	13	14
13	14	15	16	17	18	19	20	14	15	16	17	18	19	20	21
20	21	22	23	24	25	26	27	21	22	23	24	25	26	27	28
27	28	...	...	...	...	...	...	28	29	30	31	...	...	...	...

SEPTEMBER							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	4				1	2	3
5	6	7	8	9	10	11	12	6	7	8	9	10	11
13	14	15	16	17	18	19	20	13	14	15	16	17	18
19	20	21	22	23	24	25	26	20	21	22	23	24	25
26	27	28	29	30	...	...	...	27	28	29	30	31	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...
OCTOBER							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1	2							
3	4	5	6	7	8	9	3	4	5	6	7	8	9
10	11	12	13	14	15	16	10	11	12	13	14	15	16
17	18	19	20	21	22	23	17	18	19	20	21	22	23
24	25	26	27	28	29	30	24	25	26	27	28	29	30
31	...	...	...	...	...	...	...	...	...	...	...	...	...
NOVEMBER							MAY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6	1	2	3	4	5	6	7
7	8	9	10	11	12	13	8	9	10	11	12	13	14
14	15	16	17	18	19	20	15	16	17	18	19	20	21
21	22	23	24	25	26	27	22	23	24	25	26	27	28
28	29	30	...	...	...	...	29	30	31	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...
DECEMBER							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	4				1	2	3
5	6	7	8	9	10	11	12	5	6	7	8	9	10
13	14	15	16	17	18	19	20	13	14	15	16	17	18
19	20	21	22	23	24	25	26	19	20	21	22	23	24
26	27	28	29	30	31	...	...	26	27	28	29	30	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...
JANUARY 1927							JULY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1	2	3	4	5	6	7	8
2	3	4	5	6	7	8	9	10	11	12	13	14	15
9	10	11	12	13	14	15	16	17	18	19	20	21	22
16	17	18	19	20	21	22	23	24	25	26	27	28	29
23	24	25	26	27	28	29	30	31	...	...	...	...	...
30	31	...	...	...	...	...	...	...	...	...	...	...	...
FEBRUARY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5		1	2	3	4	5	6
6	7	8	9	10	11	12	7	8	9	10	11	12	13
13	14	15	16	17	18	19	14	15	16	17	18	19	20
20	21	22	23	24	25	26	21	22	23	24	25	26	27
27	28	...	...	...	...	...	28	29	30	31	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...

Periods for Division A indicated by type thus: 1, 2, 3.  
Periods for Division B indicated by type thus: 1, 2, 3.  
Holidays and Sundays indicated by type thus: 1, 2, 3.

# Calendar for School Year

1926-1927

## GENERAL NOTES

Division B is at engineering practice while Division A is at school.

Division A is at engineering practice while Division B is at school.

Periods at school or at engineering practice are shown by different kinds of type on Yearly Calendar.

First-year students co-operate on the twenty-week plan.

Upper classmen co-operate on the five-week plan, except in summer, when one period for each division is six weeks in length.

Students at engineering practice have no holidays except those allowed by employers.

---

1926

SEPTEMBER 6, MONDAY

Labor Day. (School exercises omitted.)

SEPTEMBER 8, WEDNESDAY

Entrance Examinations.

SEPTEMBER 9, THURSDAY

Preliminary Registration for Freshmen.

SEPTEMBER 13, MONDAY

Opening of First Semester for Division A Freshmen and Upper classmen.

OCTOBER 12, TUESDAY

Columbus Day. (School exercises omitted.)

OCTOBER 18, MONDAY

Second Period begins for Division A Freshmen.

Opening of First Semester for Division B Upper classmen.

First Term begins for Division AA Upper classmen.

NOVEMBER 22, MONDAY

Third Period (Second Semester) begins for Division A Freshmen.

Second Period begins for Division A Upper classmen.

First Term begins for Division BB Upper classmen.

NOVEMBER 24, WEDNESDAY

School exercises omitted after 1 P. M.

NOVEMBER 25, THURSDAY

Thanksgiving Day. (School exercises omitted.)

DECEMBER 24, FRIDAY

School exercises omitted after 1 P. M.

DECEMBER 25, SATURDAY

Christmas. (School exercises omitted.)

DECEMBER 27, MONDAY

Fourth Period begins for Division A Freshmen.

Second Period begins for Division B Upper classmen.

Second Term begins for Division AA Upper classmen.

DECEMBER 31, FRIDAY

School exercises omitted after 1 P. M.

## NORTHEASTERN UNIVERSITY

1927

JANUARY 1, SATURDAY

New Years Day. (School exercises omitted.)

JANUARY 26, WEDNESDAY

Entrance examinations.

JANUARY 27, THURSDAY

Preliminary Registration for Freshmen.

JANUARY 31, MONDAY

Opening of First Semester for Division B Freshmen.

Third Period (Second Semester) begins for Division A Upper classmen.

Second Term begins for Division BB Upper classmen.

Special summer term work begins for Division A Freshmen.

FEBRUARY 22, TUESDAY

Washington's Birthday. (School exercises omitted.)

MARCH 7, MONDAY

Second Period begins for Division B Freshmen.

Third Period (Second Semester) begins for Division B Upper classmen.

Third Term begins for Division AA upper classmen.

MARCH 25, FRIDAY

School exercises omitted after 1 P.M.

MARCH 26, SATURDAY

School exercises omitted.

APRIL 11, MONDAY

Third Period (Second Semester) begins for Division B Freshmen.

Fourth Period begins for Division A Upper classmen.

Third Term begins for Division BB Upper classmen.

APRIL 19, TUESDAY

Patriots Day. (School exercises omitted.)

MAY 14, SATURDAY

All work must be completed by Division A Seniors.

MAY 16, MONDAY

Fourth Period begins for Division B Freshmen and Upper classmen.

MAY 30, MONDAY

Memorial Day. (School exercises omitted.)

JUNE 11, SATURDAY

Field Day. (School exercises omitted.)

JUNE 16, THURSDAY

Entrance examinations.

All work must be completed by Division B Seniors.

JUNE 17, FRIDAY

Bunker Hill Day. (School exercises omitted.)

JUNE 18, SATURDAY

School exercises omitted.

JUNE 19, SUNDAY

Baccalaureate Sermon.

JUNE 20, MONDAY

Commencement.

Summer Term begins for Division B Freshmen.

Review Courses begin for Division A Upper classmen.

JULY 4, MONDAY

Independence Day. (School exercises omitted.)



## SCHOOL OF ENGINEERING

AUGUST 15, MONDAY

Summer Term begins for Division A Freshmen.

Review Courses begin for Division B Upper classmen.

SEPTEMBER 5, MONDAY

Labor Day. (School exercises omitted.)

SEPTEMBER 8, THURSDAY

Preliminary Registration for Freshmen.

SEPTEMBER 12, MONDAY

Opening of School Year 1927-1928.

---

### SPECIAL NOTES FOR 1927

#### UPPER CLASSES

June 20-July 30

Division A Review Courses and vacation

August 1-September 10

Division B at Engineering Practice

Division B vacation and Review Courses

Division A at Engineering Practice

#### FRESHMEN CLASS

June 20-July 16

Division B Summer school

June 18-July 30

Division A Review Courses

August 1-August 13

Division B vacation

August 15-September 10

Division A vacation

Division A Summer school

Division B Review Courses

# NORTHEASTERN UNIVERSITY

## TRUSTEES

CHAIRMAN

ARTHUR STODDARD JOHNSON

VICE-CHAIRMAN

ALBERT HARMON CURTIS

SECRETARY

GALEN DAVID LIGHT

WILMAN EDWARD ADAMS

ALFRED HARLOWE AVERY

WASHINGTON IRVING BULLARD

WILLIAM CONVERSE CHICK

WALTON LEE CROCKER

LEWIS ABBOTT CROSSETT

ROBERT GRAY DODGE

HENRY BRADLEE FENNO

BENJAMIN A. FRANKLIN

FRANKLIN WILE GANSE

BENJAMIN WRIGHT GUERNSEY

JOHN HENRY HARWOOD

ARTHUR LEE

GEORGE CABOT LEE

HENRY GARDNER LORD

ERNEST LOVERING

FRANCIS POPE LUCE

WILLIAM EVERETT MACURDA

MILTON CRAWFORD MAPES

EDWARD FULLER MINER

ARTHUR PERRY, JR.

THOMAS HASTING RUSSELL

SABIN POND SANGER

CHARLES PECK SISSON

FRANK PALMER SPEARE

FRANCIS ROBERT CARNEGIE STEELE

---

## BOARD OF GOVERNORS

CHAIRMAN

ALBERT HARMON CURTIS

SECRETARY

GALEN DAVID LIGHT

WILMAN EDWARD ADAMS

ASA SAMUEL ALLEN

WILLIAM CONVERSE CHICK

WALTON LEE CROCKER

ALBERT BROWNE CURTIS

ROBERT GRAY DODGE

ARTHUR STODDARD JOHNSON

WILLIAM EVERETT MACURDA

FRANK PALMER SPEARE

FRANCIS ROBERT CARNEGIE STEELE

**SCHOOL OF ENGINEERING**  
**GENERAL OFFICES OF THE UNIVERSITY**  
**AND**  
**THE EXECUTIVE COUNCIL**

FRANK PALMER SPEARE, LL.B., M.H.  
*President of the University*

GALEN DAVID LIGHT, A.B.  
*Secretary and Comptroller of the University*

CARL STEPHENS ELL, A.B., M.S.  
*Vice President of the University*

EVERETT AVERY CHURCHILL, A.B., Ed.D.  
*Vice President of the University*

---

**HEADS OF SCHOOLS**

**Collegiate Schools**

SCHOOL OF ENGINEERING

CARL STEPHENS ELL, A.B., M.S., *Dean*

SCHOOL OF BUSINESS ADMINISTRATION

TURNER FLOWERS GARNER, A.M., Ed.M., *Dean*

SCHOOL OF LAW

EVERETT AVERY CHURCHILL, A.B., Ed.D., *Dean*

SCHOOL OF COMMERCE AND FINANCE

CARL DAVID SMITH, B.H., Ed.M., *Dean*

**Noncollegiate Schools**

EVENING POLYTECHNIC SCHOOL

THOMAS EDWARD PENARD, S.B., *Associate Dean*

NORTHEASTERN PREPARATORY SCHOOL

JAMES WALLACE LEES, A.M., *Principal*

NORTHEASTERN AUTOMOTIVE SCHOOL

HOWARD P. LEFAVOUR, *Principal*

DEPARTMENT OF UNIVERSITY EXTENSION

JAMES WALLACE LEES, A.M., *Director*

---

**SPECIAL ADVISORS**

FRANK BONNYMAN CAWLEY, B.S.  
*Director of Physical Education*

CLARENCE CARDWELL BEASLEY  
*Director of Religious Education*

# NORTHEASTERN UNIVERSITY

## OFFICERS OF INSTRUCTION

FRANK PALMER SPEARE, LL.B., M.H. <i>President</i>	483 Boylston St., Brookline
GALEN DAVID LIGHT, A.B. <i>Secretary</i>	815 Center St., Jamaica Plain
CARL STEPHENS ELL, A.B., M.S. <i>Dean</i>	52 Clement Ave., West Roxbury

## PROFESSORS

HENRY BISSELL ALVORD, S.B. <i>Professor of Civil Engineering</i>	52 Frost Ave., Melrose Hlds.
GEORGE FRANCIS ASHLEY <i>Professor of Drawing</i>	West Townsend, Mass.
JOSEPH ARTHUR COOLIDGE, S.B. <i>Professor of Physics</i>	20 Martin St., Cambridge
CARL STEPHENS ELL, A.B., M.S. <i>Professor of Civil Engineering</i>	52 Clement Ave., West Roxbury
HAROLD WESLEY MELVIN, A.B. <i>Professor of English</i>	155 Blue Hill Ave., Milton
WILLIAM LINCOLN SMITH, S.B. <i>Professor of Electrical Engineering</i>	4 Academy Lane, Concord
JOSEPH SPEAR, A.B. <i>Professor of Mathematics</i>	31 Matchett St., Brighton
JOSEPH WILLIAM ZELLER, S.B. <i>Professor of Mechanical Engineering</i>	1583 Worcester Road, Framingham

## ASSISTANT PROFESSORS

ALFRED JOHN FERRETTI, S.B. <i>Assistant Professor of Mechanical Engineering</i>	101 Coolidge Road, Lynn
GEORGE BLODGETT GEE, C.E. <i>Assistant Professor of Drawing</i>	17 Pine St., Belmont
EMIL ANTON GRAMSTORFF, S.B. <i>Assistant Professor of Civil Engineering</i>	Farmcrest Ave., Lexington
JAMES WARREN INGALLS, S.B., C.E. <i>Assistant Professor of Civil Engineering</i>	65 Graves St., East Lynn
WALDEMAR STANWOOD MCGUIRE, S.B. <i>Assistant Professor of Chemistry</i>	243 Prospect St., West Roxbury
WINTHROP ELIOT NIGHTINGALE, A.B., S.B. <i>Assistant Professor of Civil Engineering</i>	36 Dickerman Rd., Newton Highlands
ROLAND GUYER PORTER, B.E.E. <i>Assistant Professor of Electrical Engineering</i>	27 Broadway, Beverly
JOHN BUTLER PUGSLEY, A.B. <i>Assistant Professor of Mathematics</i>	23 Hardy Ave., Watertown
HENRY EDWARD RICHARDS, S.B. <i>Assistant Professor of Electrical Engineering</i>	171 First St., Melrose
MILTON JOHN SCHLAGENHAUF, A.B., B.D., M.A. <i>Assistant Professor of Administrative Engineering</i>	63 Paris St., Medford
FREDERICK ARLINGTON STEARNS, S.B. <i>Assistant Professor of Mechanical Engineering</i>	208 Grove St., Melrose

## SCHOOL OF ENGINEERING

SAMUEL ABBOTT SMITH STRAHAN <i>Assistant Professor of Chemistry</i>	26 Hemenway St., Boston
ELIOT FRANKLIN TOZER <i>Assistant Professor of Drawing</i>	82 Granite Place, East Milton
HOLLEY STETSON WINKFIELD, S.B. <i>Assistant Professor of Electrical Engineering</i>	35 Dartmouth St., Arlington

### INSTRUCTORS

WILLIAM JEFFERSON ALCOIT, JR., S.B. in C.E. <i>Instructor in Mathematics</i>	194 Linden St., Everett
HENRY GUSTAVE ANDERSON, B.M.E. <i>Instructor in Mechanical Engineering</i>	30 Garnet Rd., West Roxbury
CHARLES OSCAR BAIRD, JR. <i>Instructor in Civil Engineering</i>	32 Beacon Hill Ave., Lynn
CHESTER PACKARD BAKER, B.Ch.E. <i>Instructor in Chemical Engineering</i>	199 Audubon Rd., Boston
RUFUS HALLOWELL BOND, A.B., LL.B. <i>Instructor in Mathematics</i>	131 Grant Ave., Medford
ELMER TOIVO CARLSON, B.E.E. <i>Instructor in Electrical Engineering</i>	922 Beacon St., Boston
JOHN ORRIN COPLEY <i>Instructor in Drawing</i>	52 Cherry St., Medford
STANLEY GODDARD ESTES, A.B. <i>Instructor in English</i>	337 Commonwealth Ave., Boston
FORREST MELDON HATCH, S.B. <i>Instructor in Physics</i>	38 Ferry St., Malden
FREDERICK WILLIAM HOLMES, A.B. <i>Instructor in English</i>	50 Metropolitan Ave., Roslindale
WILLIAM CARL HULTGREN <i>Instructor in Physical Training</i>	41 Mendlesohn St., Roslindale
ERVIN HOLBROOK LEWIS, B.E.E. <i>Instructor in Electrical Engineering</i>	43 Gay St., Newtonville
ARTHUR BIRD MONTGOMERY, B.B.A. <i>Instructor in Administrative Engineering</i>	1000 Hyde Park Ave., Hyde Park
DERWOOD AUSTIN NEWMAN <i>Instructor in Chemistry</i>	88 Elm St., Danvers
EDWARD SNOW PARSONS, B.C.E. <i>Instructor in Mathematics</i>	705 Washington St., Gloucester
ROY HOYT PAYNTER, A.B., M.B.A. <i>Instructor in Administrative Engineering</i>	1200 Massachusetts Ave., Cambridge
ALLAN HARVARD ROGERS, B.E.E. <i>Instructor in Electrical Engineering</i>	820 Massachusetts Ave., Cambridge
EDWARD DERTHOLD SCHRIFTGEISSER, A.B. <i>Instructor in English</i>	225 Harold St., Roxbury
JOHN JAMES SINNETT <i>Instructor in Physical Training</i>	35 St. John St., Jamaica Plain
LEOPOLD FREDERICK STRAUSS <i>Instructor in German</i>	199 West Newton St., Boston
GEORGE WESLEY TOWLE, S.B. <i>Instructor in Mathematics</i>	244 Middlesex Ave., Medford
ALBERT EDWARD WHITTAKER, B.M.E. <i>Instructor in Physics</i>	15 Laurel St., Lynn

# NORTHEASTERN UNIVERSITY

## ASSISTANTS

JOHN LEONARD CLARK	91 Spring St., Stoneham
<i>Assistant in Electrical Engineering</i>	
LEWIS EMERY COBB	148 Mystic St., West Medford
<i>Assistant in Electrical Engineering</i>	
WILLIAM REIDY CUFF	1010 Washington St., So. Braintree
<i>Assistant in Physics</i>	
ANDREW HODSDON HEYWOOD	North Yarmouth, Maine
<i>Assistant in Electrical Engineering</i>	
JAMES C. HICKS	Walnut Hill, Maine
<i>Assistant in Physics</i>	
RANDOLPH MATTHEWS HULL	High Point, North Carolina
<i>Assistant in Electrical Engineering</i>	
WARREN SANFORD KUMBLAD	66 French Ave., Brockton
<i>Assistant in Chemistry</i>	
LEON JAMES MACKENNA	Fort Conington, New York
<i>Assistant in Mechanical Engineering</i>	
ROGER ALTON MCNAMARA	Bay St., Easton
<i>Assistant in Mechanical Engineering</i>	
RONALD SLOANE MURPHY	New Preston, Connecticut
<i>Assistant in Electrical Engineering</i>	
EDWARD ROY NELSON	1241 Broadway, West Somerville
<i>Assistant in Chemistry</i>	
LESTER JOSEPH PARSONS	2 Widdlesworth St., Roxbury
<i>Assistant in Physics</i>	
CHARLES WILLIAM SKINNER	Main St., Hamilton
<i>Assistant in Chemistry</i>	
ADELBERT IRVING SLOCUM	1133 Hyde Park Ave., Hyde Park
<i>Assistant in Electrical Engineering</i>	
CLARENCE WINSLOW TAYLOR	24 Everett Sq., Allston
<i>Assistant in Chemistry</i>	
KARL HENRY WILBER	South Amboy, New Jersey
<i>Assistant in Physics</i>	

# SCHOOL OF ENGINEERING

## ADMINISTRATIVE OFFICERS

CARL STEPHENS ELL, A.B., M.S. 52 Clement Ave., West Roxbury  
*Dean*

JOHN BUTLER PUGSLEY, A.B. 23 Hardy Ave., Watertown  
*Registrar*

WINTHROP ELIOT NIGHTINGALE, A.B., S.B. 36 Dickerman Rd., Newton Hlds.  
*Director of Engineering Practice*

GEORGE WESLEY TOWLE, S.B. 244 Middlesex Ave., Medford  
*Assistant Director of Engineering Practice*

JOSEPH SPEAR, A.B. 31 Matchett St., Brighton  
*Director of Student Activities*

MILTON JOHN SCHLAGENHAUF, A.B., B.D., M.A. 63 Paris St., Medford  
*Director of School Publications*

ARTHUR BIRD MONTGOMERY, B.B.A. 1000 Hyde Park Ave., Hyde Park  
*Assistant to the Dean*

ALLAN HARVARD ROGERS, B.E.E. 820 Massachusetts Ave., Cambridge  
*Assistant to the Registrar*

\* \* \* \* \*

LILIAN SYLVIA BISBEE 24 Falmouth St., Boston  
*Stenographer*

KATHERINE COOPER 21 Warner St., West Somerville  
*Secretary to the Director of Student Activities*

ANNIE LAURIE CORBETT 18 Hemenway St., Boston  
*Secretary to the Dean*

EDNA JANE GARRABRANT 62 Harlow St., Arlington  
*Secretary to the Director of Engineering Practice*

MARY BUCHANAN MENZIES 52 Florence St., Everett  
*Stenographer*

MARGARET LOIS MIDDLETON 14 Medfield St., Boston  
*Recorder*

JESSIE MARY PAINE 90 Central St., West Somerville  
*Secretary to the Registrar*

CAROLINE FRANCES PETTINGELL 1 Ellsworth Park, Cambridge  
*Bookkeeper*

LULU JANE THYNG 57 Ridgewood St., Dorchester  
*Secretary to the Committee on Admission*

MARY DIXON TURNER 163 Forest St., Melrose  
*Secretary*

\* \* \* \* \*

CAROLYN ESTHER HENDERSON 20 Charlesgate West, Boston  
*Assistant Secretary of the University*

J. KENNETH STEVENSON 25 Hammond St., Cambridge  
*Bursar of the University*

MYRA EDNA WHITE 165 Hemenway St., Boston  
*Librarian of the University*

# NORTHEASTERN UNIVERSITY

## DEPARTMENTS OF THE SCHOOL

### MAIN DEPARTMENTS

#### SCHOOL ADMINISTRATION

*Professor Pugsley, in charge*

#### ENGINEERING PRACTICE

*Professor Nightingale, in charge*

#### STUDENT ACTIVITIES

*Professor Spear, in charge*

### PROFESSIONAL DEPARTMENTS

#### CIVIL ENGINEERING

*Professor Alvord, in charge*

#### MECHANICAL ENGINEERING

*Professor Zeller, in charge*

#### ELECTRICAL ENGINEERING

*Professor Smith, in charge*

#### CHEMICAL ENGINEERING

*Professor Strahan, in charge*

#### ADMINISTRATIVE ENGINEERING

*Professor Schlagenhauf, in charge*

### GENERAL DEPARTMENTS

#### DRAWING

*Professor Tozer, in charge*

#### ENGLISH

*Professor Melvin, in charge*

#### MATHEMATICS

*Professor Spear, in charge*

#### PHYSICS

*Professor Coolidge, in charge*



# SCHOOL OF ENGINEERING

## \*FACULTY COMMITTEES

### EXECUTIVE COMMITTEE

DEAN ELL, <i>Chairman</i>	Professor Nightingale
Professor Pugsley	Professor Spear

#### Admission

DEAN ELL, *Chairman*

Professor Pugsley	Professor Melvin
-------------------	------------------

#### Administrative

PROFESSOR PUGSLEY, *Chairman*

Professor Coolidge	Professor Spear
Professor Nighingale	Professor Schlagenhauf
Professor Alvord	Professor Strahan
Professor Smith	Professor Zeller

#### Athletics

##### A. FACULTY COMMITTEE

WINTHROP E. NIGHTINGALE, *Chairman*

Turner F. Garner	John B. Pugsley
Arthur B. Montgomery	Joseph Spear

##### B. GENERAL COMMITTEE

JOSEPH SPEAR, *Chairman*

Rufus H. Bond	Edward S. Parsons
John O. Copley	Joseph W. Zeller
Turner F. Garner	Captain of each sport

#### Fraternities

MR. BOND, *Chairman*

Professor Alvord	Professor Strahan
Professor Ferretti	Mr. Towle
Professor Gramstorff	Mr. Montgomery
Professor Schlagenhauf	Mr. Estes
Professor Ingalls	

#### Publications

PROFESSOR SCHLAGENHAUF, *Chairman*

Professor Gee	Mr. Holmes
Mr. Estes	Mr. Montgomery

\*The Dean is, *ex-officio*, a member of all standing committees.

# NORTHEASTERN UNIVERSITY

## Faculty Class Advisors

Emil A. Gramstorff	Class of 1926
Holley S. Winkfield	Class of 1927
Joseph A. Coolidge	Class of 1928
Albert E. Whittaker	Class of 1929

## Faculty Student Advisors

### CIVIL ENGINEERING

Senior	Henry B. Alvord
Junior	James W. Ingalls
Sophomore	James W. Ingalls
Freshman	Emil A. Gramstorff

### MECHANICAL ENGINEERING

Senior	Joseph W. Zeller
Junior	Alfred J. Ferretti
Sophomore	Alfred J. Ferretti
Freshman	Eliot F. Tozer

### ELECTRICAL ENGINEERING

Senior	William L. Smith
Junior	Roland G. Porter
Sophomore	Henry E. Richards
Freshman	{ William J. Alcott, Jr. { Albert E. Whittaker

### CHEMICAL ENGINEERING

Senior	Samuel A. S. Strahan
Junior	Samuel A. S. Strahan
Sophomore	Chester P. Baker
Freshman	Frederick W. Holmes

### ADMINISTRATIVE ENGINEERING

Junior	Milton J. Schlagenhauf
Sophomore	Milton J. Schlagenhauf
Freshman	Stanley J. Estes

# SCHOOL OF ENGINEERING

## SPECIAL LECTURES

CHARLES R. BROWN

*Dean of Yale Divinity School*

"The Vital and the Trivial in Religion"

F. LAURISTAN BULLARD

*Chief Editorial Writer of the "Boston Herald"*

"The City Four Square"

JEAN CAPART

*Professor of Egyptology, University of Liege, Brussels, Belgium*

"Egyptian Excavations"

HENRY H. CRANE

*Center Methodist Episcopal Church, Malden*

"Watch"

SAMUEL M. CROTHERS

*Harvard Divinity School*

"Making a New Frontier"

SIR WILLOUGHBY DICKINSON

*Chairman of League of Nations Society*

"Peace and War"

RABBI HARRY LEVI

*Temple Israel, Boston*

"Education and Life"

ROBERT LUCE

*Member of Congress*

"History of Political Parties"

DENIS MCCARTHY

*Poet and Journalist*

"Making a Living and Making a Life"

JOHN F. MOORS

*Moors & Cabot, Stock Brokers*

"Lincoln and Washington"

LEMUEL H. MURLIN

*President of DePauw University*

"Self Expression"

CLARENCE R. SKINNER

*Professor of Applied Christianity, Tufts College*

"Prejudice"

DAVID D. VAUGHAN

*Professor of Social Service, Boston University*

"The World Sweep of Democracy"

WELLINGTON WELLS

*President of the Massachusetts Senate*

"The Mass. Budget System"

# NORTHEASTERN UNIVERSITY

## GENERAL INFORMATION

### History of Northeastern University

The incorporation of Northeastern University of the Boston Young Men's Christian Association in March, 1916, marked the culmination of a notable development. The University is the realization of an ideal carefully worked out and persistently followed for many years. One of the first lines of endeavor of the Boston Young Men's Christian Association, after its establishment in 1851, was the opening of evening classes for young men. It was not, however, until 1896 that the actual foundations for the University were laid. The larger number of courses offered required a more comprehensive organization. Gradually the courses were grouped under separate schools and additional courses were offered to complete the curriculum of each school.

The School of Law, established in 1898, was incorporated in 1904 with degree granting power. Founded in 1907, the School of Commerce and Finance was authorized in 1911 to confer the degrees of Bachelor and Master of Commercial Science. The School of Engineering was opened in 1909 and given power in 1920 to confer the following degrees: Bachelor of Civil Engineering, Bachelor of Mechanical Engineering, Bachelor of Electrical Engineering, Bachelor of Chemical Engineering, and Bachelor of Administrative Engineering. The School of Business Administration was opened in September, 1922, and has the right to grant the degrees of Bachelor of Business Administration and Master of Business Administration. In addition, the Evening Polytechnic School, the Huntington School for Boys, the Northeastern Preparatory School, the Automotive School, and the Department of University Extension are conducted under the administration of the University. In March, 1923, the University was granted general degree granting power by the Massachusetts Legislature. Divisions of the University offering evening instruction have been established at Worcester, Springfield, New Haven and Providence.

## SCHOOL OF ENGINEERING

In sixteen years the School of Engineering, which was started without special educational entrance requirements, little equipment and a registration of only eight pupils, has grown to be a recognized factor in the community with rigid requirements of scholarship and character, equipment worth thousands of dollars, a highly-trained and able faculty, and an enrollment of over twelve hundred students. Young men of moderate financial resources may receive college engineering training, defray part of their expenses, and in addition become familiar with the actual practice of their profession.

## BOSTON

Many advantages from its location in Boston accrue to the students attending Northeastern University. The Boston Museum of Fine Arts, which is located within a few blocks of the University, contains one of the greatest collections of painting, sculptures, and other objects which confer unsurpassed opportunity for artistic education and enjoyment. Boston is an important musical center and is visited by many leading musicians and men of note in other fields of art.

Points of historical interest including the Old North Church in which the famed signal lanterns were hung! the Old State House in which famous leaders of the Revolution attended to matters of state; the Old South Meeting House and Faneuil Hall, the rendezvous of the Revolutionists; sites of the Boston Massacre and Tea Party; and the present capitol of the Commonwealth of Massachusetts add much to the attractiveness of Boston as an educational center. Located in Charlestown is Bunker Hill Monument of Revolutionary fame.

In Cambridge, which is located just across the Charles River, are found former homes of Longfellow and Lowell, Harvard University, and other points of historical interest.

Passing through Cambridge and Arlington is the road leading to Lexington and Concord along which the British soldiers retreated after the first battle of the Revolution.

Boston's park system and reservations of the Metropolitan District Commission afford splendid opportunity to enjoy nature, scenery, and pleasing environment.

Railroad and other transportation facilities afford many and

## NORTHEASTERN UNIVERSITY

convenient means of communication with the immediate and more distant parts of the country.

### Object of the School of Engineering

Technical school instruction, depending on class-room work and laboratories, must always lack some of the vital characteristics of an actual manufacturing plant. One is carried on for educational purposes, the other is operated for dividends. This latter fact gives the co-operative school one advantage over the usual educational plan. Instead of devoting several years to work in which he may later find himself entirely unfitted, the School puts the student to work in a commercial plant where he may "find" himself. He learns life in its vital issues, as well as the problem of getting along with men, thus early learning whether he has made a wise or unwise choice of his life work. This training demonstrates to him the use and value of his school work, and finally gives him an unusual opportunity to acquire from actual experience that rare characteristic, *executive ability*, without which his life probably would be spent on the lower levels of industry.

The fundamental aim of the Northeastern University, School of Engineering, is to give young men sound training in both the theoretical and applied principles upon which professional practice is based. *The training is in no sense that of a trade school, but is that of a regular engineering school of high standards.*

The end sought is to give students who have a high school preparation, or its equivalent, a good training in the fundamental sciences of mathematics, chemistry, and physics, and in the important applications of the principles of these sciences to the several branches of engineering. Much stress is laid on the development of the ability to apply the acquired knowledge to new engineering problems, and an effort is made to be thorough without leading the student through a maze of mere mental gymnastics.

The program of studies differs from that of many schools, in that a student is not permitted a wide range of subjects from which to choose. It has been found that better results are obtained by prescribing the principal studies which the student is to pursue.

# **SCHOOL OF ENGINEERING**

## **CO-OPERATIVE PLAN**

To illustrate the co-operative plan, let us take the case of two men, "A" and "B" who desire to pursue one of the courses offered.

If the men are members of any one of the three upper classes (sophomore, junior, or senior), "B" will be assigned to one of the plants of a firm that is co-operating with the school. There he receives practical experience under school supervision for a period of five weeks. "A" who is called the alternate of "B", has meanwhile been attending classes at the school. At the end of the five-week period, "B" takes the place of "A" at school, and "A" relieves "B" at the plant of the employing firm. This procedure is repeated each period, the same two students alternating with that firm for at least one calendar year from the date of starting the work. "A" and "B" are spoken of as "Division A" and "Division B" men respectively.

In the case of freshmen, the alternating period is from twenty to twenty-four weeks' duration. The practical work is not necessarily of an engineering character. Division A freshmen will ordinarily continue until time of registration with such employment as they may obtain. It is recommended that freshmen accept engineering practice assignments when advised to do so by the Engineering Practice Department. When freshmen apply for and accept engineering practice assignments, they will be expected to fulfill all of the requirements governing co-operative work. Division B freshmen will work until registration date in the latter part of January. Any desired vacation must be taken before starting work. Division A freshmen will start work after completing their freshmen studies and will continue at least until the regular alternating date about the first of August. A regular vacation period is arranged for after that date and before the opening of school in September.

## **Correlation of Practical and Theoretical Work**

Co-operating employers agree, when practicable, to employ the students in the various departments of their establishments. This training is as thorough and complete as the academic

## NORTHEASTERN UNIVERSITY

work. Where possible, the plant experience ranges from the handling of the raw materials to the shipment of the finished product. This practical training includes a knowledge of the executive duties of the plant as well as the use of machines. Therefore, at the end of his course, the graduate should know both plant operation and the administrative problems. The greatest value can be derived from such courses by the student only by continuing work with the firms offering this type of training for *at least* one year subsequent to graduation. Statistics show that from thirty to thirty-five per cent of each graduating class remain with their co-operating employers after graduation.

### Engineering Practice Reports

The correlation of practical and theoretical work is further promoted by required report writing. These engineering practice reports are written during the working periods by all co-operative students. Subjects of these reports are selected by the student after conference with a member of the Engineering Practice Department by whom they must be approved. The reports are designed to encourage the observational and investigative qualities of the students and to help them to appreciate more fully the extent and value of their experience. In fact, they are short theses, rather than reports of work done by the student in the plant. They are corrected by the Engineering Practice Department and are discussed with the student during the next following school period. Exceptionally valuable results have been obtained from these reports in the past. The value derived must necessarily be directly proportional to the conscientious and intelligent concentration of effort by the student upon this phase of the work.

### Engineering Practice Grades

Complete and detailed records are kept of the engineering practice of each student. A progress grade is given for the engineering practice completed to the close of each school semester. It is based upon the written reports, the employer's reports obtained by cards at the end of each working period, occasional personal interviews with the employers, and upon



## **SCHOOL OF ENGINEERING**

the general attitude of the student toward all of the features of his engineering practice. It is not possible to secure a degree unless this part of the course is completed satisfactorily.

### **Number of Positions Available**

The number of positions at our disposal in any one branch of engineering is necessarily limited. Thus far desirable positions have been secured for our students as the growth of the school demanded. Engineering practice is not required of freshmen but will be provided for those who prefer to be assigned by the School.

Some students prefer to secure their own positions. In such cases, alternates will usually be furnished by the School, if desired. Such individual arrangements are entirely acceptable to the School provided they do not conflict with other obligations assumed by that student and may be made by any applicant, subject to the approval of the Director of Engineering Practice.

### **Attitude of Co-operating Firms**

That co-operating employers favor our plan is clearly demonstrated by their retention of the same students from year to year. Moreover, employers listed with us apply for additional students to fill vacancies whenever such can be filled by our men. The men under whose supervision the students have been doing work are almost unanimous in their approval of our plan. The enthusiasm, earnestness and intelligence the students show in the performance of their duties is a subject of comment among the employers.

### **Assignment to Engineering Practice**

A student is assigned to an engineering practice job by the following routine: He is given general information in regard to the work, the hours, the location, the rate of pay, etc. If the job seems acceptable, he is given a copy of the Engineering Practice Regulations governing co-operative work and is required to sign the agreement referred to therein. He is then given a card of introduction and sent to the employer for

## NORTHEASTERN UNIVERSITY

personal interview. During the interview with the employer the student is expected to acquaint himself with further details of the nature of the work and the conditions under which he will be expected to work. He may then accept the position subject to his acceptance by the employer. The latter indicates his acceptance or rejection of the student by marking the introduction card and returning it by mail to the school. It is expected that no student will accept placement by the School unless he intends to continue throughout the year in school and with the firm in question, in accordance with the Engineering Practice Regulations.

During the periods of engineering practice, students report for work as do other employees, no special privileges being granted. While at work, students are allowed only legal holidays. *School holidays are not holidays for students while on engineering practice.* Students are not permitted to discontinue engineering practice except by previous arrangements with the School. In all cases of absences from engineering practice, whether avoidable or not, the student or a member of his family is required to notify by telephone immediately the EMPLOYING FIRM and the SCHOOL. Failure to do so is sufficient cause for dismissal.

The School places the student at work with the employing firm and is responsible for his presence and conduct at work as well as the quality and scope of his work. All difficulties arising in regard to students who are on engineering practice are taken up with the School authorities at the next following school period.

Students in the junior and senior years are almost invariably placed with firms which give them experience directly in line with the course of study followed at school.

Freshmen and sophomores, as a rule, are assigned to work not so technical in character, but designed to train the younger men in the fundamental qualities of cheerfulness, dependability, enthusiasm, and "grit." In connection with his engineering practice during the student's college course these attributes are emphasized at every opportunity. The first year's training is designed especially to develop these habits. If a young man can form habits of mental and physical alertness and reliability, he has laid a sure foundation for his success and happiness in later

## **SCHOOL OF ENGINEERING**

life. The detailed technical information and experience is added in the three upper years.

The school cannot guarantee to place students owing to uncertainties of business conditions as well as other reasons beyond the control of the school. Although the school in no way discriminates between students of various races and religions, considerable difficulty has been experienced in placing members of certain races satisfactorily on co-operative work.

### **Location of Work**

It is the policy of the Engineering Practice Department to assign students to co-operative work within commuting distance of their homes. This is not always possible, however, and at times it may be necessary for students to live away from home in order to obtain satisfactory and desirable Engineering Practice assignments.

### **Credits**

The conscientious pursuit and successful completion of engineering practice assignments are necessary for the student to obtain the degree. Seniors are required to take engineering practice from September to June for four alternate five-week periods and receive therefore twenty credits toward the degree. Sophomores and juniors, who elect the co-operative plan, work for four five-week and one six-week alternate periods, a total of twenty-six weeks and receive therefor twenty-four credits toward the degree each year. Students on the full-time plan, however, do not receive credit toward the degree for the practical experience they may obtain during summer vacations.

During periods of business depression or seasonal cessation of certain industries when it may be impossible for the School to provide satisfactory employment for all students, a student may be required to attend school and take additional school work along with the full-time students. The passing of the required number of courses taken under such circumstances will prevent lapse of credit toward the degree as the result of being out of work.

Credit obtained on the full-time plan cannot be substituted for deficient credit on the co-operative plan and engineering

## NORTHEASTERN UNIVERSITY

practice credit cannot be substituted for deficient credit on the full-time plan.

In general, changes and transfers in engineering practice are made in September, at the beginning of the school year.

### Earnings

The firms treat our students as they do other employees in regard to method of payment, rates of pay, chances of promotion, etc. Each firm makes individual arrangements with the student.

*The rates of pay for students in the School are low. Thus the employer feels justified in devoting time to the instruction of the students and in transferring them at approximately regular intervals from one department to another.*

The following table of wages by agreement with the co-operating firms is the minimum to be paid the students.

\$12 per week for the first and second years.

14 per week for the third year.

16 per week for the fourth year.

Ordinarily on the special training courses a student starts with each firm at the minimum wage and is promoted as his ability may warrant. In certain cases the students receive less than the minimum stated above, but this is usually made up to them in some other way.

No upper limit is set. All employers are requested to pay whatever rate the student proves himself worth. The average is \$18 to \$20, even for men of exceptional ability, because the students are given the privilege of attending school on the co-operative plan and of being transferred from one department to another. The total income is more than enough to pay the tuition and the necessary school expenses, but does not cover board, room rent, and other living expenses, either while in school or on the job.

### Educational Certificates

The law of Massachusetts requires all students under twenty-one years of age to obtain Educational Certificates. Massachusetts General Laws 1921, Chapter 149, Section 95: "No minor over sixteen and under twenty-one shall be em-

## **SCHOOL OF ENGINEERING**

ployed in a factory, workshop, manufacturing, mechanical or mercantile establishment, or in a public or private bowling alley, pool or billiard room, bootblack stand or establishment, barber shop, or in the construction or repair of buildings, or by an express or transportation company, except as provided for pupils in co-operative courses, unless his employer procures and keeps on file an educational certificate showing the age of the minor and his ability or inability to read and write as hereinafter provided." If students living outside of Boston bring with them Birth Certificates, it will save time and trouble. The Educational Certificates, upon request, may be obtained from the Superintendent of Schools in the city or town where the student resides during the period of his employment, if he lives in Massachusetts. Students residing outside of the Commonwealth during engineering practice periods, but working within the Commonwealth are required to obtain Educational Certificates from the Superintendent of Schools or designated official of the town where employed.

### **Engineering Practice Regulations**

(1) A student on assignment to an engineering practice job is required to sign the co-operative agreement to retain that job for a calendar year. The first week on the job is the only trial period allowed. If the student feels that he does not want to retain that job for at least the calendar year, he should so notify the Engineering Practice Department during the first week. If without such notice a student still retains the job for more than a week, his co-operative agreement becomes effective automatically, and he is required by the School to fulfill that agreement. Any exceptions may be allowed only upon petition to the Engineering Practice Committee.

This agreement obligates the employer to retain the student on the job only so long as the co-operation is practicable. Employers are advised to discharge students after fair trial for unsatisfactory work, incompetency, inability, or any irregularity. In other words, every student is expected to work conscientiously and to the best of his ability and to retain his job in competition with others only through satisfactory service.

(2) A student giving notice of dissatisfaction or desire for

## NORTHEASTERN UNIVERSITY

different assignment during his trial week is expected to stay on the job until relieved by another student assigned by the Department of Engineering practice.

(3) Students are required to continue on their engineering practice jobs throughout the regular summer periods as shown in the calendar in the catalog, in order to obtain the necessary credit for the degree.

(4) In case of sickness or other emergency requiring absence from work, the EMPLOYER and the Engineering Practice Department *must be notified* immediately by telephone or messenger.

(5) Students wishing to participate *during working hours* of engineering practice periods in student activities must petition the Engineering Practice Department, in order that the necessary steps may be taken to arrange with the employer for such participation, if possible.

(6) A student discharged or temporarily laid off is expected to notify the Engineering Practice Department immediately.

(7) A student must not voluntarily leave a job for any reason whatsoever without the consent of the Engineering Practice Department.

(8) A student abandoning a job or so conducting himself on his job as to purposely cause his discharge may be immediately, indefinitely suspended from college for breach of discipline.

(9) Any dissatisfaction or trouble arising on jobs should be reported to the Engineering Practice Department and adjustments brought about through the department.

### Schedules of Practical Work

Below are typical schedules of practical work that have been arranged for our students by some of the co-operating firms.

These schedules are arranged with the basic idea of giving the student a thorough training through the several different departments, but must of necessity be varied in accordance with the needs of those departments.

#### BOSTON & MAINE RAILROAD CO.

ONE YEAR    Lathe  
                 Slotter and Shaper  
                 Planer and Drills

## SCHOOL OF ENGINEERING

- ONE YEAR Boring Mill  
Miller  
Erecting and Dismantling
- ONE YEAR Drafting Room

### BOSTON WOVEN HOSE & RUBBER CO.

- ONE YEAR Factory
- ONE YEAR Inspection, Clerical, and Stock Depts.
- ONE YEAR Chemical Laboratory, Inspection, and Machine Tools  
Shop
- ONE YEAR Testing Dept., Production Dept. and Mechanical Dept.

### CONDIT ELECTRICAL MANUFACTURING CO.

- ONE YEAR Testing Dept.  
Switchboard Dept.  
Office
- ONE YEAR Switchboard Dept.  
Construction  
Diagramming
- ONE YEAR Sales Dept.  
Quoting and Estimating  
Correspondence

### THE DENNISON MANUFACTURING CO.

- ONE YEAR Carpenter Work  
Electrician's Helper  
Millwright Work
- ONE YEAR Machine Shop Stock Room  
Grinding Room  
Machine Shop
- ONE YEAR Filing Tracings  
Blueprinting  
Drafting Room Records  
Detailing  
General Drafting

### EDISON ELECTRIC ILLUMINATING COMPANY OF BOSTON

The schedule of the Edison Electric Illuminating Company of Boston is divided into the following general classifications. Very few co-operating students, if any, obtain experience in all branches, but progress from year to year in the respective branches as conditions require.

#### *Standardizing*

- (a) Testing and standardizing of electrical instruments
- (b) Miscellaneous standardization
- (c) Repairs on electrical instruments
- (d) Laboratory high voltage tests

#### *Steam Practice*

- (a) Turbine, engine and boiler tests
- (b) Instrument tests and repairs
- (c) Miscellaneous tests

#### *Electrical Testing*

- (a) Testing and repairing of electrical instruments in power stations and sub-stations

## NORTHEASTERN UNIVERSITY

- (b) Cable tests
- (c) High voltage tests on apparatus and in the field
- (d) Checking up construction work
- (e) Miscellaneous electrical tests

### *Chemical Engineering*

- (a) Fuel analysis
- (b) Miscellaneous tests and analysis of oils, water paints and other materials

### *Photography*

### *Office Work*

## HUNT-SPILLER MANUFACTURING CORPORATION

- ONE YEAR General laboratory and plant work, including preparation of samples  
Pyrometry  
Use and care of metallurgical apparatus
- ONE YEAR Complete analysis of coal, coke, lime-stone, sand, iron, oils, etc.
- ONE YEAR Keeping of general metallurgical records, filing, and making of reports
- ONE YEAR Analysis for combined, graphitic, and total carbon with a complete knowledge of a carbon combustion apparatus

## NORTON COMPANY

### Grinding Machine Division

- ONE YEAR Tool Crib  
Automatic Screw Machine  
Engine Lathe  
Turret Lathe  
Drills
- ONE YEAR Milling Machine  
Gear Cutter  
Boring Mill  
Planer  
Grinder
- ONE YEAR Assembly  
Inspection  
Stock Room (finished parts)  
Production Office

## SIMPLEX WIRE AND CABLE COMPANY

The first two years are devoted to general plant training which is primarily the same for Electrical, Mechanical, and Chemical students, except that the schedules are designed to give more extended training in the departments more closely allied to the course of study. The senior year is devoted entirely to the department for which the student is studying.

- ONE YEAR Insulating Dept.  
Braiding Dept.  
Cable Dept.
- ONE YEAR Twisting Dept.  
Machine Shop  
Plant Construction



## SCHOOL OF ENGINEERING

ONE YEAR   Electrical Testing  
                  or  
          Drafting Room  
                  or  
          Chemical Laboratory

### CO-OPERATING FIRMS

The following firms co-operate with the school when students are available and business conditions warrant:

ABERTHAW CONSTRUCTION COMPANY, Boston (Civil)  
ACME APPARATUS COMPANY, Cambridge (Electrical)  
ALLEN, ALBION B., General Contractor, Amherst (Civil)  
AMERICAN ACID COMPANY, Medford (Chemical)  
AMERICAN AGRICULTURAL CHEMICAL COMPANY, Weymouth (Chemical)  
AMERICAN BOSCH MAGNETO CORPORATION, Cambridge (Mechanical and Electrical)  
AMERICAN GLUE COMPANY, Peabody (Electrical)  
AMERICAN RADIO & RESEARCH CORPORATION, Medford Hillside (Electrical)  
AMERICAN SCHAEFFER & BUDENBERG CORPORATION, Worcester (Mechanical)  
AMORY FOUNDRY, Jamaica Plain (Mechanical and Chemical)  
APPLETON, THOMAS A., Civil Engineer, Salem (Civil)  
ARNOLD MACHINE COMPANY, Rockland (Mechanical)  
ASHTON VALVE COMPANY, Cambridge (Mechanical)  
BACON, ARTHUR W., Civil Engineer, New Britain, Conn. (Civil)  
BAKER, WALTER & COMPANY, LTD., Boston (Administrative)  
BARNES, ROWLAND H., Civil Engineer, Waltham (Civil)  
BARRETT COMPANY, THE, Everett (Chemical)  
BATES, WALTER C., Civil Engineer, Jamaica Plain (Civil)  
BAY STATE RADIO COMPANY, Boston (Electrical)  
BEACON OIL COMPANY, Everett (Mechanical and Chemical)  
BERNITZ FURNACE APPLIANCE COMPANY, Boston (Mechanical)  
BETHLEHEM SHIPBUILDING CORPORATION, Quincy (Civil, Mechanical, Electrical)  
BEVERLY GAS AND ELECTRIC COMPANY, Beverly (Electrical)  
BIRD AND SON, INC., East Walpole (Chemical and Electrical)  
BISHOP, J. W., COMPANY, Boston (Civil)  
BLAKE ELECTRIC MANUFACTURING COMPANY, Boston (Electrical)  
BLANCHARD MACHINE COMPANY, Cambridge (Mechanical)  
BLISS, G. E., INC., Malden (Electrical)  
BORDEN, FRANCIS S., Civil Engineer, Fall River (Civil)  
BOSTON & ALBANY RAILROAD, Boston (Civil)  
BOSTON BELTING COMPANY, Roxbury (Mechanical)  
BOSTON BRASS COMPANY, Waltham (Mechanical)  
BOSTON CONSOLIDATED GAS COMPANY, Boston (Chemical)  
BOSTON FUEL TESTING COMPANY, Boston (Chemical)  
BOSTON GEAR WORKS, Quincy (Mechanical)  
BOSTON ICE COMPANY, Boston (Mechanical)  
BOSTON INDIA RUBBER COMPANY, Boston (Chemical)  
BOSTON & MAINE RAILROAD, Boston (Mechanical)  
BOSTON PEN COMPANY, Somerville (Mechanical)

## NORTHEASTERN UNIVERSITY

BOSTON SAND AND GRAVEL COMPANY, Boston (Mechanical and Electrical)  
 BOSTON UNIVERSITY—Laboratory, Boston (Chemical)  
 BOSTON VARNISH COMPANY, East Everett (Chemical)  
 BOSTON WOVEN HOSE & RUBBER COMPANY, Cambridge (Mechanical and Chemical)  
 BOSTON Y. M. C. A., Boston (Electrical)  
 BRACKETT, L. G., Civil Engineer, Boston (Civil)  
 BRADFORD & WEED, Civil Engineers, Lynn (Civil)  
 BRANCH, ERNEST W., Civil Engineer, Quincy (Civil)  
 BRAYTON, GEORGE B., Boston, (Administrative)  
 BREHM, GEORGE C., Dept. Public Works, Waltham (Civil)  
 BRIDGEPORT BRASS COMPANY, Bridgeport, Conn. (Mechanical)  
 BROWN, BURTIS S., Consulting Engineer, Boston (Civil)  
 BRYANT, HENRY F., Town Engineer, Brookline (Civil)  
 BUFF & BUFF MANUFACTURING COMPANY, Jamaica Plain (Civil and Mechanical)  
 BUTT, H. G., MANUFACTURING COMPANY, Boston (Mechanical)  
 CADILLAC AUTOMOBILE COMPANY, Boston (Mechanical)  
 CAMBRIDGE RUBBER COMPANY, Cambridge (Electrical)  
 CAPE & VINEYARD ELECTRIC COMPANY, Falmouth (Electrical)  
 CARTER, WILLIAM COMPANY, Needham (Electrical)  
 CASEY FOSTER COMPANY, Boston (Administrative)  
 CHARNOCK, FRED R., City Engineer, Medford (Civil)  
 CHASE-SHAWMUT COMPANY, Newburyport (Electrical)  
 CHELSEA RADIO COMPANY, Chelsea (Electrical)  
 CLAPP, E. H., RUBBER COMPANY, Hanover (Electrical)  
 CLARK & SMITH, Architects, Quincy (Civil)  
 COBB, BEESLEY & MILES, CIVIL ENGINEERS, Springfield (Civil)  
 COFFIN VALVE COMPANY, Neponset (Mechanical)  
 CONANT MACHINE COMPANY, Concord (Mechanical)  
 CONCORD ELECTRIC LIGHT DEPARTMENT, Concord (Electrical)  
 CONDIT ELECTRICAL MANUFACTURING COMPANY, South Boston (Electrical)  
 CONNECTICUT TELEPHONE & ELECTRIC COMPANY, Meriden, Conn. (Electrical)  
 CONVERSE RUBBER SHOE COMPANY, Malden (Chemical)  
 CORBETT, E. M., Civil Engineer and Architect, Fall River (Civil)  
 COUCH, S. H., COMPANY, Quincy (Electrical)  
 CRITTENDEN MANUFACTURING COMPANY, Jamaica Plain (Mechanical)  
 CROCKER, H. S., City Engineer, Brockton (Civil)  
 CROSBY STEAM GAGE & VALVE COMPANY, Charlestown (Mechanical)  
 CUNDARI COMPANY, Boston (Civil)  
 DENNISON MANUFACTURING COMPANY, Framingham (Mechanical and Electrical)  
 DOLLE ELECTRICAL MACHINE COMPANY, Boston (Electrical)  
 DOMESTIC ELECTRIC COMPANY, Wellesley (Electrical)  
 DONNELLY MACHINE COMPANY, Brockton (Mechanical)  
 DONOVAN, L. E., Electrical Contractor, Somerville (Electrical)  
 DRAKE, A. B., Civil Engineer, New Bedford (Civil)  
 DRAPER CORPORATION, The, Hopedale (Civil and Mechanical)  
 DRISCOLL & COMPANY, Heating Contractors, Salem (Mechanical)  
 DYER, JOHN, Civil Engineer, Melrose (Civil)  
 EASTERN METAL & REFINING COMPANY, Malden (Mechanical)

## SCHOOL OF ENGINEERING

EDISON ELECTRIC ILLUMINATING COMPANY OF BOSTON (Mechanical, Electrical, Chemical)  
 ELECTRICAL INSTALLATION COMPANY, Boston (Electrical)  
 E. I. DUPONT DE MEMOURS COMPANY, Everett (Chemical, Mechanical, Electrical)  
 ELLIOTT, C. J., Civil Engineer, Boston (Civil)  
 ELLIS MANUFACTURING COMPANY, Milldale, Conn. (Mechanical)  
 EMERSON APPARATUS COMPANY, Melrose (Mechanical)  
 EVANS, R. R., Essex County Engineer, Salem (Civil)  
 EVATT, W. M., COMPANY, Boston (Civil)  
 FALES, L. F., Walpole (Mechanical)  
 FARNHAM & GLEASON, INC., Wellesley (Civil)  
 FELLOWS GEAR SHAPER COMPANY, Springfield, Vt. (Mechanical)  
 FIRST NATIONAL BANK OF BOSTON (Administrative)  
 FOUNDATION COMPANY, INC., OF NEW YORK (Civil)  
 FULLER, GEORGE A., COMPANY, Boston (Civil)  
 GANNETT, CHARLES H., Civil Engineer, Boston (Civil)  
 GENERAL ALLOY COMPANY, South Boston (Mechanical)  
 GENERAL ELECTRIC COMPANY, Lynn (Chemical and Mechanical)  
 GENERAL ELECTRIC COMPANY, Pittsfield (Electrical)  
 GENERAL RADIO COMPANY, Cambridge (Electrical)  
 GERARD ELECTRIC COMPANY, Boston (Electrical)  
 GOLDING MANUFACTURING COMPANY, Franklin (Mechanical)  
 GOWING, FREDERICK H., Architect, Boston (Civil)  
 GRATON & KNIGHT MANUFACTURING COMPANY, Worcester (Mechanical)  
 GREENFIELD ELECTRIC LIGHT & POWER COMPANY, Greenfield (Electrical)  
 HAMILTON, P. D. G., Boston (Civil)  
 HAMMOND V. HAYES LABORATORY, Boston (Mechanical)  
 HARVEY, ARTHUR C., COMPANY, Boston (Mechanical)  
 HAYWARD, R. LORING, Civil Engineer, Taunton (Civil)  
 HEDLUND, CHARLES, COMPANY, Quincy (Electrical)  
 HILL, GEORGE A., COMPANY, Lowell (Electrical)  
 HIXON ELECTRIC COMPANY, Boston (Electrical)  
 HOLDRIDGE, WARREN E., Mattapan (Electrical)  
 HOLTZER CABOT ELECTRIC COMPANY, Roxbury (Electrical)  
 HOLYOKE WATER POWER COMPANY, Holyoke (Electrical)  
 HORTONIA LIGHT & POWER COMPANY, Rutland, Vt. (Electrical)  
 HOOD RUBBER COMPANY, Watertown (Mechanical)  
 HOWE & FRENCH, Boston (Chemical)  
 HUME BODY CORPORATION, Boston (Mechanical)  
 HUMPHREY, C. B., Court Surveyor, Boston (Civil)  
 HUNT-SPILLER MANUFACTURING CORPORATION, South Boston (Chemical)  
 HYDE, DANIEL W., Civil Engineer, Boston (Civil)  
 HYGRADE LAMP COMPANY, Salem (Electrical)  
 INTERNATIONAL ENGINEERING WORKS, Framingham (Mechanical)  
 INTERNATIONAL PAPER COMPANY, Franklin, N. H. (Electrical)  
 INTERNATIONAL SILVER COMPANY, Meriden, Conn. (Chemical)  
 JAGER, CHARLES J., COMPANY, Boston (Mechanical)  
 JARVIS ENGINEERING COMPANY, South Boston (Mechanical)  
 JOY, C. F., JR., Town Engineer, Milton (Civil)  
 KEENE GAS & ELECTRIC COMPANY, Keene, N. H. (Electrical)  
 KENDALL, F. H., Middlesex County Engineer, Cambridge (Civil)  
 KENNEY BROS. & WOLKINS, Boston (Mechanical)  
 KENNISON, KARL R., Consulting Engineer, Boston (Civil)

## NORTHEASTERN UNIVERSITY

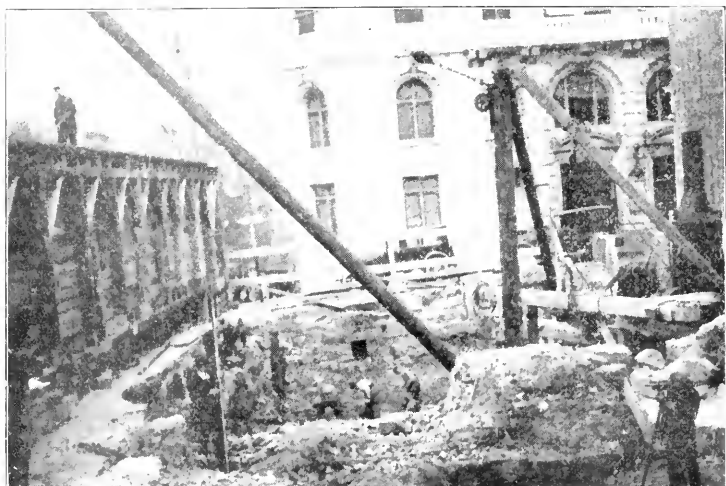
KINNEY MANUFACTURING COMPANY, Jamaica Plain (Mechanical)  
 KNOTT, L. E., APPARATUS COMPANY, Cambridge (Mechanical and Electrical)  
 LANCASTER MILLS, Clinton (Mechanical)  
 LANDERS, FRARY & CLARKE, New Britain, Conn. (Mechanical)  
 LAWTON MILLS CORPORATION, Plainfield, Conn. (Mechanical)  
 LEIGHTON MACHINE COMPANY, East Manchester, N. H. (Mechanical)  
 LEVER BROTHERS COMPANY, Soap Manufacturers, Cambridge (Chemical)  
 LINDSAY, P. K., & COMPANY, Boston (Mechanical)  
 LINES, H. WALES, COMPANY, Meriden, Conn. (Civil)  
 LOCKE REGULATOR COMPANY, Salem (Mechanical)  
 LUCHINI, J., Civil Engineer, Milford (Civil)  
 LUNDIN ELECTRIC & MACHINE COMPANY, Boston (Electrical)  
 LYNN SUPPLY COMPANY, Lynn (Mechanical)  
 MACE, ALBERT E., COMPANY, Roxbury (Electrical)  
 MAINE STATE HIGHWAYS, Augusta, Maine (Civil)  
 MALDEN & MELROSE GAS & ELECTRIC COMPANY, Malden (Electrical and Chemical)  
 MALLOY, W. F., Electrical Contractor, Cambridge (Electrical)  
 MANHASSET MANUFACTURING COMPANY, Putnam, Conn. (Electrical)  
 MANNING, MAXWELL & MOORE, INC., Fitchburg (Mechanical)  
 MARINE HARDWARE COMPANY, Peabody (Mechanical)  
 MARTIN ROCKING FIFTH WHEEL COMPANY, Springfield (Mechanical)  
 MASON REGULATOR COMPANY, Milton (Mechanical)  
 MASSACHUSETTS DEPARTMENT OF PUBLIC UTILITIES, Boston (Mechanical)  
 MASSACHUSETTS DEPT. OF PUBLIC WORKS, Testing Laboratory, Boston (Chemical)  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge (Chemical)  
 MASSACHUSETTS PUBLIC WORKS DEPT., Division of Highways, Boston (Civil)  
 MCCLINTOCK & WOODFALL, Civil Engineers, Boston (Civil)  
 MCELWAIN, W. H., COMPANY, Manchester, N. H. (Mechanical)  
 MCINTIRE, F. N., BRASS WORKS, Boston (Mechanical)  
 MERRIMAC CHEMICAL COMPANY, North Woburn and Everett (Chemical)  
 METAL GOODS MANUFACTURING COMPANY, Boston (Mechanical and Electrical)  
 METROPOLITAN DISTRICT COMMISSION, Boston (Civil)  
 MONKS & JOHNSON, Structural Engineers, Boston (Civil)  
 MORGAN CONSTRUCTION COMPANY, Worcester (Mechanical)  
 MOSHER, C. R., Civil Engineer, North Dartmouth (Civil)  
 MURDOCK, WM. J., COMPANY, Chelsea (Electrical)  
 NEAR, B. G., Electrical Contractor, Boston (Electrical)  
 NEW DEPARTURE MANUFACTURING COMPANY, Bristol, Conn. (Mechanical)  
 NEW ENGLAND CONFECTIONARY COMPANY, Boston (Mechanical)  
 NEW ENGLAND FUEL AND TRANSPORTATION COMPANY, Everett (Chemical)  
 NEW ENGLAND OIL REFINING COMPANY, Fall River (Civil)  
 NEW ENGLAND POWER COMPANY, Worcester (Electrical)  
 NEW ENGLAND SLATE BLACKBOARD COMPANY, Boston (Mechanical)  
 NEW ENGLAND STRUCTURAL COMPANY, Everett (Mechanical)  
 NEWTON CITY ENGINEER (Civil)  
 NEW YORK, NEW HAVEN & HARTFORD R. R. (Mechanical)



Class in Railroad Engineering Drafting



Making a Plane Table Survey



Lines and Grades  
Aspinwall & Lincoln



Giving Lines and Grades for Concrete Construction

## SCHOOL OF ENGINEERING

NORFOLK IRON WORKS, Quincy (Mechanical)  
NORFOLK PAINT & VARNISH COMPANY, Norfolk Downs (Chemical)  
NORTHEASTERN UNIVERSITY—Laboratories (Civil, Mechanical, Electrical, Chemical)  
NORTH PACKING & PROVISION COMPANY, East Cambridge (Mechanical)  
NORTON COMPANY, Worcester (Mechanical)  
NORWOOD TOWN ENGINEER (Civil)  
OLD COLONY FOUNDRY, East Bridgewater (Mechanical)  
OXFORD PAPER COMPANY, Rumford, Maine (Mechanical)  
PALMER ELECTRIC & MANUFACTURING COMPANY, Cambridge (Electrical)  
PANTHER RUBBER MANUFACTURING COMPANY, Stoughton (Chemical)  
PARAMOUNT MAINTENANCE COMPANY, Boston (Electrical)  
PARKER, BATEMAN & CHASE, Clinton (Civil)  
PAVER'S MACHINE SHOP, Franklin (Mechanical)  
PEJEPSOT PAPER COMPANY, Brunswick, Maine (Electrical)  
PERRY, GEORGE W., City Engineer, Putnam, Conn. (Civil)  
PIERCE & BARNES, Civil Engineers, Boston (Civil)  
PLUNKETT, R. A., Civil Engineer, Boston (Civil)  
PLYMOUTH ELECTRIC LIGHT COMPANY, Plymouth (Electrical)  
PLYMOUTH TOWN ENGINEER, Plymouth (Civil)  
PNEUMATIC SCALE CORPORATION, Norfolk Downs (Mechanical)  
POTTER, HERBERT S., COMPANY, Boston (Electrical)  
PORTLAND, ME., Department of Public Works (Civil)  
PRATT, HERBERT A., Worcester (Civil)  
PUNCHARD, W. H., Landscape Architect, Boston (Civil)  
RAWSON ELECTRICAL INSTRUMENT COMPANY, Cambridge (Electrical)  
REED, ALONZO B., Consulting Engineer, Boston (Civil)  
REFRIGERATING MACHINERY COMPANY, Boston (Mechanical)  
RIDLON, FRANK, COMPANY, Boston (Electrical)  
RUGGLES-KLINGEMANN MANUFACTURING COMPANY, Salem (Mechanical)  
RUUD MANUFACTURING COMPANY, Boston (Mechanical)  
SACO-LOWELL SHOPS, Newton Upper Falls (Electrical)  
SAMPSON, GEORGE T., Civil Engineer, Medford (Civil)  
SAMSON ELECTRIC COMPANY, Canton (Electrical)  
SANBORN COMPANY, Instrument Manufacturers, Cambridge (Mechanical and Electrical)  
SARGENT, ALBERT F., Civil Engineer, Malden (Civil)  
SAYLES FINISHING PLANTS, Saylesville, R. I. (Chemical)  
SCHEIN & LEVINE, Architects & Engineers, Chelsea (Civil)  
SHARPLES LABORATORY, Boston (Chemical)  
SHATTUCK, L. H., INC., Manchester, N. H. (Civil)  
SHAY & LEARY, Civil Engineer, Lynn (Civil)  
SIMPLEX ELECTRIC HEATING COMPANY, Cambridge (Electrical)  
SIMPLEX WIRE AND CABLE COMPANY, Cambridge (Electrical, Mechanical and Chemical)  
SIMPSON BROTHERS CORPORATION, Boston (Civil)  
SKINNER ORGAN COMPANY, Dorchester (Mechanical)  
SKINNER, SHERMAN & ESSELEN, INC., Boston (Chemical)  
SOCOLD ELECTRIC REFRIGERATION COMPANY, Lynn (Mechanical)  
SOMERVILLE MACHINE & TOOL COMPANY, Somerville (Mechanical)  
SPAULDING-MOSS COMPANY, Boston (Mechanical and Electrical)  
SPENCER-THERMOSTAT COMPANY, Cambridge (Mechanical)  
ST. AMANDS, L. J., Architect, Boston (Civil)  
STARRETT, L. S., TOOL COMPANY, Athol (Mechanical)  
STONE & WEBSTER, INC., (Civil)

## NORTHEASTERN UNIVERSITY

STOWERS, FRED W., Civil Engineer and Contractor, Methuen (Civil)  
 STRATHMORE PAPER COMPANY, Woronoco (Mechanical)  
 STURTEVANT, B. F., COMPANY, Hyde Park (Mechanical and Electrical)  
 STREET & KENDALL, Gardner (Civil)  
 SUBMARINE SIGNAL CORPORATION, Boston (Electrical)  
 SYMONDS, HENRY A., Boston (Civil)  
 TAYFORD Co., THE, LEE (Electrical)  
 THOMPSON, HENRY C., Patent Attorney, Boston (Mechanical)  
 TILO ROOFING COMPANY, Somerville (Administrative)  
 TRIMONT MANUFACTURING COMPANY, Roxbury (Mechanical)  
 TRINITY RADIO CORPORATION, Boston (Electrical)  
 TRUFANT, A. P., Civil Engineer, Brockton (Civil)  
 TUFTS, NATHANIEL, Meter Works, Boston (Mechanical)  
 TURNER CONSTRUCTION COMPANY, Boston (Civil)  
 TURNER TANNING MACHINERY COMPANY, Peabody (Mechanical)  
 UNION SPINNING & PLATING COMPANY, Boston (Civil)  
 UNION TWIST DRILL COMPANY, Athol (Mechanical)  
 UNITED ELECTRIC LIGHT COMPAN, Springfield (Electrical)  
 UNITED ELECTRIC RAILWAYS COMPANY, Providence, R. I. (Civil, Mechanical, Electrical)  
 UNITED SHOE MACHINERY COMPANY, Beverly (Mechanical and Electrical)  
 UNITED STATES ENVELOPE COMPANY, Holyoke (Mechanical)  
 UNIVERSAL HOIST & BODY COMPANY, Everett (Mechanical)  
 VAN VALKENBURGH, J. J., Civil Engineer, Frammingham (Civil)  
 VARNEY, HENRY A., Town Engineer, Brookline (Civil)  
 VAUGHAN ENGINEERS, Boston (Civil)  
 VENNARD, WILLIAM L., City Engineer, Lynn (Civil)  
 VISCOLOID COMPANY, Leominster (Mechanical)  
 WALKER & PRATT MANUFACTURING COMPANY, Watertown (Mechanical)  
 WALTHAM WATCH COMPANY, Waltham (Mechanical and Chemical)  
 WARREN BROTHERS COMPANY, Paving Materials Laboratory, Cambridge (Chemical)  
 WERBY LABORATORIES, Boston (Chemical)  
 WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, Springfield (Electrical)  
 WEYMOUTH LIGHT & POWER COMPANY, Weymouth (Electrical)  
 WHIDDEN BEEKMAN COMPANY, Boston (Civil)  
 WHITE, HARTLEY L., Civil Engineer, Braintree (Civil)  
 WHITMAN AND HOWARD, Civil Engineers, Boston (Civil)  
 WHITNEY, CHARLES F., Civil Engineer, Boston (Civil)  
 WICKWIRE SPENCER STEEL CORPORATION, Palmer (Mechanical)  
 WILLARD SERVICE STATION, South Frammingham (Electrical)  
 WINSTON & COMPANY, Kingston, N. Y. (Civil)  
 WIRELESS SPECIALTY APPARATUS COMPANY, Jamaica Plain (Electrical)  
 WOBURN MACHINERY COMPANY, Woburn (Mechanical)  
 WOLLASTON FOUNDRY COMPANY, Norfolk Downs (Mechanical)  
 WOODS, S. A. MACHINE COMPANY, Boston (Mechanical, Electrical)  
 WORCESTER ELECTRIC LIGHT COMPANY, Worcester (Mechanical and Electrical)  
 WORTHINGTON PUMP AND MACHINERY CORPORATION, East Cambridge (Mechanical)  
 ZINA GOODELL CORPORATION, Salem (Mechanical)



# **SCHOOL OF ENGINEERING**

## **FULL-TIME PLAN**

### **FOR SOPHOMORES AND JUNIORS**

Employers seek the engineer as the type of man best qualified to design and construct the physical requirements of our modern civilization and a type, peculiarly fitted by training and association, to operate and manage the complex public and industrial mechanisms which he has been active in creating. Intelligent labor recognizes in the engineer an expert, allied neither to capital nor to labor itself, and who is perhaps the one element in the world today best fitted to deal with the pressing problem of the relations between capital and labor.

Recognizing the many new possibilities open to the engineer, representative engineering societies are requesting colleges to incorporate in their curriculum courses which will fit for leadership. This demand is a logical development in the evolution of engineering education. "The Federated American Engineering Societies, therefore, speaking for the engineering profession, urges upon engineering colleges an increased attention to the social aspects of engineering activities, and a broadening of their technical training in every way possible, to develop in engineering students the spirit of and a capacity for active leadership, not only in industry, but in public affairs."

A liberal education, admittedly proper for students of medicine, law, or theology, is now held to be the training for future leaders in engineering. Education is an opportunity, nothing more. It cannot of itself make an engineering leader. To young men possessing the natural characteristics for leadership—high character, integrity, initiative, common-sense, executive ability and resourcefulness—the university must offer the best educational advantages.

Northeastern University recognizes its obligation in this matter, and therefore offers in addition to its regular engineering courses an opportunity for a liberal education which is designed to give the future engineer the broad training requisite to a successful career.

At present, work is offered in economics, literature, public speaking, ethics, history, government, psychology, business administration, industrial finance, commercial law, and soci-

## NORTHEASTERN UNIVERSITY

ology. These courses are planned to make the engineer articulate, to acquaint him with the social and industrial conditions which he must sooner or later face, to give him an understanding of the principles of business, to familiarize him with some of the fundamental laws of human behavior, to develop in him a knowledge of the past as the best guide through the mazes of present-day life, and to awaken in him the vision of future possibilities by introducing him to the best thoughts of the ages.

### **Purpose of Full-Time Plan**

The courses are planned to broaden the mental horizon of the student by the analysis and formulation of political, social, economic, and industrial problems. Special emphasis is placed upon the engineer's relationship to these mooted questions. Economic and social effects of the engineer's work receive due consideration. The importance of the human factor in production, labor problems, legal relationships, industrial organization, and effective distribution as related to modern individual and social existence are germane in this schedule. In no case, however, is it anticipated to develop expertness along any particular line. The aim is to arouse interest in these activities. Specialization is to follow after the student's determination of his life's work.

### **Eligibility**

Students of the sophomore and junior classes may elect the full-time plan, but no student may register for a full-time course which duplicates a course offered in his engineering curriculum. On this plan, the students attend school three additional periods of five weeks each, each year.

### **Divisions**

Students electing this plan are assigned to Division "AA" or "BB." Division AA men enter the school with Division A and take the same work as is offered to the co-operative men for the first five-week period. At the end of that time, when the Division A men resume co-operative work, the AA men remain in school taking the first term of the liberal subjects. At the

## **SCHOOL OF ENGINEERING**

end of this five-week period, they return to the subjects of the engineering curriculum. This process is repeated each ten weeks until the students have had a total of four engineering periods and three full-time terms. The Division AA men, therefore, complete their classroom work for the year at the same time as the Division A men.

Division BB men enter with the men of Division B and take their engineering subjects with the Division B students for four alternate five-week periods. In the three intervening five-week terms, the BB men devote their time to the liberal subjects.

### **The School Year**

The full-time student, during his sophomore and junior years, will attend school for thirty-five consecutive weeks beginning in September or October, complete all of the prescribed engineering curriculum for his department and fifteen weeks of study in administrative and liberal arts subjects each year. He will cover all the courses in the engineering curriculum with either Division A or B and in the five-week periods between the engineering periods while the co-operative student is at work, the full-time student will take the courses of administrative and cultural value. Each year there will be three terms of five weeks each devoted to such work.

Sophomores and Juniors in Division A who elect the full-time plan for the school year 1926-1927 will return to school September 13 and will complete their work May 14. Sophomores and juniors in Division B will return to school October 18 and will complete their work June 18.

*All students, co-operative as well as full-time, are required to work with co-operating firms during the senior year beginning with the opening of the school year in September.*

### **Training in Administrative Subjects**

Each student, electing the full-time plan, will be given a training in the theory of business management, business law, marketing, etc. The student electing this plan will receive his degree in one of the four recognized branches of engineering, assuring him the mastery of his professional field. In addition, he will have had instruction in the problems which confront

## **NORTHEASTERN UNIVERSITY**

the executive in business, and thus will be equipped to assume responsibilities of an administrative nature.

### **Broader Liberal Education**

A common criticism that the engineer is made narrow by the strictness of his confinement to technical subjects during his college course does not apply to the full-time man, for, in addition to his professional subjects, he is given an opportunity to study such subjects as literature, psychology, sociology, etc.

### **Time for Selecting Plan**

Each student must decide definitely at the close of school each year whether he intends to attend the Engineering School the following year under the co-operative or full-time plan, except for the senior year, in which all students attend on the co-operative plan.

### **Transfer of Plans**

Students pursuing either plan may change from one to the other only at the beginning of the year, except by special permission of the school authorities.

### **Credit Basis**

Two credits are allowed for each full-time course successfully pursued for five weeks.

### **Credit Requirements**

Students electing the full-time plan are required to carry successfully at least four (4) courses during each of their full-time terms. A student has the option of electing a fifth. An average minimum of eight (8) credits each five weeks or twenty-four (24) for the year must be obtained in the liberal subjects by full-time students.

### **Condition or Make-Up Examinations in Liberal Courses**

Condition examinations in full-time subjects are given during the fourth week immediately following the failure in the subject. Not more than one condition examination is permitted a man in any course.

## **SCHOOL OF ENGINEERING**

### **When to Elect Full-time Plan**

Students planning to avail themselves of the opportunity afforded by the full-time plan are urged to take the work of both the sophomore and junior years. Some students for financial reasons are unable to pursue this work for more than one year. In such cases students are advised and urged to elect the full-time curriculum during the sophomore year. It will prove advantageous to follow this suggestion.

### **Opportunity for Work**

The student on the full-time plan is free for seventeen weeks each year, from May to September, or from June to October. This provides an excellent opportunity for him to engage in remunerative employment, if he so desires.

### **Engineering Practice**

Actual experience with co-operating firms is invaluable to graduates in Engineering. Therefore the full-time student, as well as the co-operative man, is required to attend school during his senior year on the co-operative plan.

# NORTHEASTERN UNIVERSITY

## RELATION OF SCHOOL TO SECONDARY SCHOOLS

This School is peculiarly adapted to the high school graduate with limited financial resources who has the ambition and ability to get ahead if given the opportunity.

This year the School has a student body made up of graduates of the following 301 schools:

Abington High School	Bristol (Conn.) High School
Adams High School	Bristol (N. H.) High School
Allen Military Academy (Newton)	Brockton High School
Amesbury High School	Bromfield High School (Harvard)
Amherst High School	Brookline High School
Annapolis Royal Academy	Brunswick (Me.) High School
(Granville Ferry, Nova Scotia)	Bulkeley High School
Ansonia (Conn.) High School	(New London, Conn.)
Arecibo (Porto Rico) High School	Cambridge High & Latin School
Arlington High School	Camden (Me.) High School
Aroostook Cent. Inst. (Me.)	Canaan (Vt.) High School
Ashland High School	Candia (Greece) High School
Athol High School	Caribou (Me.) High School
Attleboro High School	Chapman Technical School
Avon High School	(New London, Conn.)
Ayer High School	Chauncey Hall School (Boston)
Bangor (Me.) High School	Chelmsford High School
Bar Harbor (Me.) High School	Chelsea High School
Barnstable High School	Chester (Conn.) High School
Bartlett High School (Webster)	Chicopee High School
Barton (Vt.) High School	Clinton High School
Bassano (Canada) High School	Cohasset High School
Belchertown High School	Cohocton (N. Y.) High School
Belmont High School	Concord (Mass.) High School
Berkeley Preparatory School	Concord (N. H.) High School
Berlin (N. H.) High School	Cony High School (Augusta, Me.)
Bethel (Conn.) High School	Corinth (N. Y.) High School
Beverly High School	Danbury (Conn.) High School
Boston College High School	Danvers High School
Boston English High School	Dartmouth High School
Boston High School of Commerce	Dean Academy
Boston Latin High School	(Franklin, Mass.)
Boston Trade School	Dedham High School
Bourne High School	Deering High School
Bradford (Vt.) Academy	(Portland, Me.)
Braintree High School	DeWitt Clinton High School
Brattleboro (Vt.) High School	(New York City, N. Y.)
Brewster Academy	Dorchester High School
(Wolfeboro, N. H.)	Douglas (Ariz.) High School
Bridgeport (Conn.) High School	Douglas (Md.) High School
Brigham Academy	Dwight & Stuyvesant High School
(Bakersfield, Vt.)	(New York City, N. Y.)
Brighton High School	East Boston High School

## SCHOOL OF ENGINEERING

East Bridgewater High School	Hudson High School
Easthampton High School	Hudson (N. Y.) High School
East High School (Rochester, N. Y.)	Huntington School
East Maine Conference Seminary (Bucksport, Me.)	Hyde Park High School
Emerson (N. J.) High School	Ithaca (N. Y.) High School
Everett High School	Jamaica Plain High School
Exeter (N. H.) High School	Johnson High School (No. Andover)
Fairhaven High School	Johnson (Vt.) High School
Fall River High School	Johnston (N. Y.) High School
Farmington High School (Unionville, Conn.)	Jordan High School (Lewiston, Me.)
Fishburne Military Academy (Waynesboro, Va.)	Keene (N. H.) High School
Fitchburg High School	Kennebunk (Me.) High School
Flushing (N. Y.) High School	Kents Hill (Me.) Seminary
Fort Covington (N. Y.) High School	Killingly High School (Danielson, Conn.)
Foxboro High School	Kingston High School
Framingham High School	Kingston (N. Y.) High School
Franklin (N. H.) High School	Lawrence High School
Franklin Union (Boston)	Lawrence High School (Falmouth, Mass.)
Fredonia (N. Y.) High School	Lawrence Academy (Groton, Mass.)
Gardner High School	Leavenworth High School (Waterbury, Conn.)
General Electric Training School	Lee High School
Gloucester High School	Leominster High School
Good Will (N. Y.) High School	Lewis (Conn.) High School
Grafton High School	Lexington High School
Greely Institute (Cumberland, Me.)	Livermore Falls (Me.) High School
Greenfield High School	Lowell High School
Greenville (Me.) High School	Lowell Institute
Groton (Vt.) High School	Lynn Classical High School
Hamilton High School	Lynn English High School
Hampstead, N. H.) High School	Madison (Me.) High School
Hampton (N. H.) High School	Malden High School
Hanover High School	Manning High School (Ipswich)
Hanover (N. H.) High School	Mansfield High School
Hartford (Conn.) High School	Marblehead High School
Hartford High School (White River Jct., Vt.)	Marion (N. Y.) High School
Haverhill High School	Marlboro High School
Haverling High School (Bath, N. Y.)	Maynard High School
Hingham High School	Mechanic Arts High School
Holden High School	Medfield High School
Holley (N. Y.)	Medford High School
Holley (N. Y.) High School	Medway High School
Holliston High School	Melrose High School
Holyoke High School	Middleboro High School
Hopedale High School	Middlebury (Vt.) High School
Houlton (Me.) High School	Middletown (Conn.) High School
Howard High School	Milford High School
(W. Bridgewater, Mass.)	Milo (Me.) High School
	Milton High School

## NORTHEASTERN UNIVERSITY

Montgomery (N. Y.) High School	Quincy High School
Montpelier (Vt.) Seminary	Randolph (Vt.) High School
Morris Run (Pa.) High School	Reading High School
Morristown (N. J.) High School	Rensselaer (N. Y.) High School
Mt. Hermon School (Northfield)	Revere High School
Nantucket High School	Richards (N. H.) High School
Naugatuck (Conn.) High School	Richford (Vt.) High School
Nashua (N. H.) High School	Ridgewood (N. J.) High School
Natick High School	Rindge Technical High School
Needham High School	Rockland (Mass.) High School
New Bedford High School	Rockport High School
New Bedford Vocational School	Sanderson Academy
New Boston (N. H.) High School	(Ashfield, Mass.)
New Britain (Conn.) High School	St. Georges High School
Newburyport High School	(Tenants Harbor, Me.)
New Hampton (N. H.) Lit. Inst.	St. Johns (Mich.) High School
New Haven (Conn.) High School	St. Johns Prep. School (Danvers)
New Milford (Conn.) High School	Salcm High School
New Port Township	Sanford (Me.) High School
(Wanamie, Pa.)	Saugus High School
Newton High School	Scarboro (Me.) High School
Newton Parochial School	Scituate High School
Newton Vocational School	Sharon High School
Northampton High School	Shead Memorial High School
North Attleboro High School	(Eastport, Me.)
North Brookfield High School	Shelton (Conn.) High School
Northeastern Secondary School	Shrewsbury High School
Northfield High School	Skowhegan (Me.) High School
North Yarmouth (Me.) Academy	Somerville High School
Norton High School	South Amboy (N. J.) High School
Norwell High School	South Manchester (Conn.) High
Norwood High School	School
Old Town (Me.) High School	South Paris and Norway (Me.)
Oliver Ames High School	High School
(North Easton, Mass.)	South Portland (Me.) High School
Parsonfield (Me.) Seminary	South Royalston (Vt.) High
Pawtucket High School	School
Peabody High School	Spaulding (Vt.) High School
Penn Yan Academy (N. Y.)	Springfield Technical High School
Pepperell High School	Springfield (Vt.) High School
Peterboro (N. H.) High School	Stafford (Conn.) High School
Phillips-Andover Academy	Stephens (Me.) High School
(Holyoke, Mass.)	Stevens (N. H.) High School
Pittsfield High School	Stow (Mass.) High School
Plymouth High School	Stow (Vt.) High School
Portland (Me.) High School	Suffield (Conn.) High School
Port Washington (N. Y.) High	Swampscott High School
School	Taunton High School
Prince of Wales College	Thayer Academy (So. Braintree)
(Charlottetown, P. E. I., Can.)	Thetford (Vt.) Academy
Proctor (Vt.) High School	Thomaston (Conn.) High School
Providence (R. I.) Tech. High	Tilton (N. H.) Seminary
School	Tisbury High School
Punchard High School (Andover)	(Vineyard Haven, Mass.)
Putnam (Conn.) High School	Torrington (Conn.) High School



## SCHOOL OF ENGINEERING

Tourtellotte High School (Thompson, Conn.)	Weymouth High School
Townsend High School	Whitman High School
Troy (Vt.) Conference Academy	Williamsburg High School
Wakefield High School	Williston Seminary (Easthampton)
Walpole High School	Wilmington High School
Waltham High School	Wilton (Me.) Academy
Wareham High School	Winchester High School
Washington High School (Meriden, Conn.)	Windsor (Conn.) High School
Washington High School (Washington Depot, Conn.)	Winter Harbor (Me.) High School
Watertown High School	Winthrop High School
Wellesley High School	Woburn High School
Wentworth Institute	Worcester Classical High School
West High School	Worcester Commercial High School
Westboro High School	Worcester English High School
Westbrook (Me.) Seminary	Worcester (North) High School
Weston High School	Worcester (South) High School
West Roxbury High School	Wrentham High School
West Springfield High School	

# **NORTHEASTERN UNIVERSITY**

## **ENGINEERING EQUIPMENT**

### **Field Instruments of Civil Engineering**

For work in the field, the Civil Engineering Department possesses various surveying instruments, representing the principal makes and types in general use.

The equipment includes four surveyor's compasses, two Keuffel & Esser transits, five Buff & Buff transits, one Buff & Buff triangulation transit, two Hutchinson transits, one Poole transit, two Berger levels, two Keuffel & Esser levels, one Bausch & Lomb precise level, two Gurley plane tables, two Buff & Buff plane tables, and two Keuffel & Esser plane tables.

There are Locke hand levels, lining rods, leveling rods, stadia rods, engineers' and surveyors' chains, steel and metallic tapes, and all the miscellaneous equipment necessary to outfit the parties that the instruments will accommodate. The transits are equipped for astronomical observations. For higher surveying there is an aneroid barometer for barometric leveling, an Invar tape, a sextant for hydrographic surveying, and a Gurley electric current meter for hydraulic measurements.

The extent of the equipment and scope of the field work itself are designed to train the student's judgment as to the relative merits of the various types of field instruments.

### **Mechanical Laboratories**

The Mechanical Engineering Department has a well equipped laboratory, containing new and modern machines run by steam, gas, water, and electricity.

Under the steam apparatus located in the laboratory may be included a fifty horsepower uniflow steam engine of the latest design on which a complete engine test may be run. This machine is equipped with a prony brake for measuring the output. A surface condenser is connected into the exhaust line with the engine. A Chicago steam-driven air compressor is set up so as to make complete tests on both the steam and air ends of the machine. This is also tied in with the surface condenser. A Warren steam pump is arranged to run a standard pump test, being connected with a low level jet condenser on the steam end and a rectangular weir on the water end for

## SCHOOL OF ENGINEERING

measuring the quantity of water delivered by the pump. A twelve-horsepower single stage steam turbine to which is directly connected an absorption dynamometer or water brake so as to run a complete test on the turbine unit is available. Other steam driven apparatus includes a steam pulsometer pump and a steam injector.

The hydraulic equipment in the laboratory includes a two-stage centrifugal pump with a dual drive or separate drive as may be desired. The drive is direct from a D. C. motor or else direct from a Lee single stage steam turbine. Other machines of a hydraulic nature are a triplex power pump, motor driven; a hydraulic turbine of the Pelton Wheel type, a triangular and a rectangular weir for measuring quantity of water, besides the necessary tanks, platform scales, and hook gages.

Under the gas laboratory equipment may be listed a Fairbanks-Morse ten-horsepower gas and oil engine, so set up that tests may be run using various kinds of fuels and complete test data obtained; a Ford automobile engine arranged to run tests with different fuels and carburetors; and a gasoline airplane engine for demonstration purposes.

The steam power plant is also available for testing purposes. The plant is equipped with a flow meter in the feed water line steam pressure gauges, scales, electrical meters, thermometers, indicators, Orsat apparatus, CO<sub>2</sub> recorder and other equipment necessary for complete power plant tests. The plant consists of four horizontal return tubular boilers, two of which are equipped for burning fuel oil and two for burning coal; various auxiliary appliances as feed water pumps, feed water heater, oil fuel pumps, and separators; and four three-wire generators, three of which are driven by Ridgeway reciprocating steam engines, and the fourth is directly connected to a Westinghouse Parsons turbine.

This places at the disposal of the students well-equipped, up-to-date engineering laboratories and enables them to carry on boiler tests, with both coal and oil as fuel, determine the efficiencies of various fuels, obtain the efficiency of modern reciprocating steam engines of different types and test air compressors, fans, pumps, water wheels, and gas engines. This renders the student familiar with the various auxiliary appliances of a modern power plant. Apparatus is also available for

## NORTHEASTERN UNIVERSITY

slide valve setting, gauge testing, measuring flow of air, steam, and water, prony brake testing, determining the quality of steam by means of a throttling calorimeter, test on air blower, and friction of drives.

### Electrical Measurements Laboratory

This laboratory is equipped with apparatus of two distinct types, first that planned fundamentally for teaching the principles of measurement and, second, that which is used in teaching advanced standardizing methods as well as for keeping the instruments in daily use in the other laboratories, and in the power house, correct or properly calibrated.

It is supplied with three sets of small storage cells for 500-volt calibration work and a set of twelve 500-ampere-hour cells for current work.

The apparatus used in the first type of work includes the customary devices used in such work as resistance measurements by Ohm's law, direct deflection and substitution methods, voltmeter methods for high resistance, insulation resistance, specific resistance, use of slide wire and Wheatstone bridges, electrostatic capacity, Poggendorf's method of E. M. F. comparison, loop tests for grounds, etc.

For the second type of work there is a laboratory standard Wheatstone bridge, two Kelvin bridges (one of the self-contained type), a Leeds Northrup type Carey-Foster bridge and equipment, two potentiometers with auxiliary apparatus of volt boxes, standard cells, standard shunts of 10, 100, and 500 amperes capacity, a set of resistance standards of Bureau of Standards and another of Reichsanstalt patterns; Weston standard current transformer, Weston laboratory standard triple range voltmeter, ammeter and wattmeter for alternating current work and all necessary galvanometers carried on Julius suspensions.

Recently there have been added a complete Reichsanstalt daylight type photometer equipment, and a Westinghouse oscillograph with full equipment; also a capacity bridge working to one micro-micro-farad. Micro ammeters, standard wave meter, standard oscillators, piezo crystals, and other equipment for radio measurements; so that the laboratory is now ready

## SCHOOL OF ENGINEERING

for practically any work in electrical measurements outside the absolute determinations as carried on in National standardizing laboratories.

The instrument room is supplied with 65 high grade General Electric Co. and Weston Electric Instrument Co. alternating current voltmeters and ammeters with a number of potential and current transformers, and with 9 polyphase and 12 single-phase indicating wattmeters each of double current and double voltage ranges.

For direct current working there are 70 voltmeters (of triple range), ammeters and millivoltmeters of the above makes. There are 35 standard shunts of ranges from 10 to 100 amperes with uniform drops of 50 millivolts to go with the millivoltmeters.

There is also a large and varied assortment of auxiliary equipment such as sliding rheostats for circuit control, loading resistances, frequency indicators, power factor indicators, etc.

### Electrical Engineering Laboratory

This laboratory is equipped with 52 generators and motors of different types, the size and voltage ratings being selected to reduce as much as possible the risk from high voltage apparatus while making available to the student commercial apparatus such that the various quantities it is desired to measure will be of reasonable dimensions.

Machines from 5 to 25 kilowatt capacity are used principally for this reason, but also because the student in his engineering practice early comes in contact with large and varied machinery in power houses and electrical plants generally.

For D. C. working, among others there are two sets of specially matched direct current 6-kilowatt, 125-volt compound generators, which will still work as shunt machines. In one the two generators may be joined by a coupling so that they may be used for "pump-back" testing. The other pair are driven individually by 10-kilowatt, 230-volt motors and used principally for parallel operation and similar work. A large 230-volt, 12-kw., 200 R. P. M. Sturtevant motor is used for retardation tests, and an assortment of series, shunt and compound motors

## NORTHEASTERN UNIVERSITY

each fitted with brake wheels are used for routine motor testing.

For A. C. working there is a 15-kw. (80 per cent. p. f.) 3-phase, 230-volt alternator driven at 60 cycles by a 25 H. P. Westinghouse motor, a 7.5 kw. special G. E. machine with special armature taps so that it may be used as single-phase, two-phase, three or six-phase synchronous motor.

Two 12-kw. (80 per cent. p. f.) G. E. machines having each armature coil tapped out separately also giving the above phase arrangements, each driven by its own motor and available for use either as synchronous generators or as motors. A 5-kw. Holtzer Cabot machine with three rotors, making it available as either a squirrel cage, wound rotor, or synchronous machine. A G. E. single-phase clutch motor, a type R. I. induction motor, a Wagner single-phase motor; two Wagner motors arranged for concatenation control, two 5-kw. Holtzer three-phase synchronous converters, and a Westinghouse 7.5-kw. two-phase motor.

For transformers there are six single-phase G. E. type H units wound for 550 volts primary and 220/110 volts secondary. Two sets of transformers with Scott transformation taps, and a Type R. O. constant current transformer, primary winding for 220/190 volts and secondary for 6.6 amperes, 310 volts maximum fitted with a load of 80 candle power 6.6-amperes, 60-watt nitrogen filled tungsten lamps, and a pair of 550/220, 110 volts G. E. three-phase transformers of 7.5-kva. capacity.

There is also a full equipment of necessary control and regulating appliances and 18 movable test tables fitted with the necessary terminals, switches, circuit breakers, etc., for setting up the various test combinations required from time to time. Each student when performing an experiment does the complete wiring, no apparatus in the laboratory being found permanently wired up except as to its normal, self-contained circuits.

The laboratory equipment is steadily being added to throughout the school year as the occasion arises so that a complete up-to-date list cannot be given, also because as apparatus becomes obsolete it is discarded and replaced by the most recent type.

Power is supplied over a special set of feeders, by one or both of two special units in the power house which when on

## SCHOOL OF ENGINEERING

laboratory service are cut clear from any other service whatsoever and potential controlled from the laboratory.

There are also speed governors and Tirrell regulators, both AC and DC, capable of being used with any special machines found desirable at any particular time.

### Chemical Laboratories

The laboratories are arranged in four units, one for each of the general branches of chemistry; *i. e.*, inorganic, analytical, industrial, and organic. To meet the requirements of the inorganic work, the equipment has been very carefully selected. The laboratory for analytical work is well supplied with the usual apparatus, and also apparatus for special work. Connected with this laboratory is a modernly equipped balance room.

This special equipment includes a Freas electric drying oven, a Kimley electro-analysis apparatus, an Emerson bomb calorimeter, an Orsat apparatus for gas analysis, a Saybolt viscosimeter, New York State flash point tester, a MacKey oil tester, a Babcock milk tester, a Hoskins electric combustion furnace, a Shriver type filter press, a vacuum filter pump, a Holtzer Cabot motor generator unit, and an Allen-Moore electrolytic cell.

The laboratory for organic work is especially equipped with steam lines for distillation purposes, besides the usual steam baths, drying closets, vacuum and compressed air line and hoods. The common chemicals, including acids, bases, and salts, are available in the laboratories for general use at all times. At the end of one of the laboratories, conveniently located, is a fully equipped stock room, from which any other chemical or apparatus can be readily obtained.

### Industrial Chemistry Laboratory

The laboratory for industrial chemistry is fitted for carrying out processes on a semi-industrial scale, providing ample opportunities for research.

The laboratory contains necessary equipment for verification of laws of filtration, agitation, heat control, gas absorption

## **NORTHEASTERN UNIVERSITY**

under varying manufacturing conditions. There is also included equipment for studying electrolytical processes including electrolysis, electroplating and electroforming.

### **Design and Drafting Rooms**

The School possesses large, light and well-equipped drawing rooms for the carrying on of the designing and drafting which form so important a part of engineering work. These rooms are supplied with lockers containing the drawing supplies, and files containing blue prints, and photographs of machines and structures that represent the best practice.

### **Physics Laboratory**

The Physics Department has a large laboratory completely equipped with all necessary apparatus for the experimental work that is required of the students, as well as that required for lecture demonstration. The apparatus and equipment includes verniers, levels, vacuum pump, spirometer, planimeters, spherometers, calorimeters, thermometers, pyrometer, sonometer, spectroscopes, spectrometer, balances, standard gram weight, optical disk with all accessories, lenses, photometer, air thermometer, and a full set of weather bureau apparatus, including barograph, thermograph, hygrometer, barometer, maximum and minimum thermometers, etc. These give a wide range to the experimental work that can be done.

### **Libraries**

Students of the School have available for their use the University Library, which includes a large collection of engineering texts, reference books, and current periodicals on engineering and scientific subjects, and in addition there is a general library of several thousands of carefully selected books. The reading room is open from 9.00 A. M. to 10.00 P. M. daily.

All members of the School have the privilege of taking books from the Boston Public Library, which offers a very unusual opportunity to our non-resident students. The School is within easy access to the Public Library, which enables students to have unlimited reference to engineering subjects at any time.



## SCHOOL OF ENGINEERING

Still other libraries, such as the State Library, the library of the Massachusetts Historical Society, and the library of the American Academy of Arts and Sciences furnish re-enforcement in particular fields.

### Equipment for Physical Training

Northeastern has exceptional facilities for all-round physical training. The gymnasium with its 12-lap running track, three basketball courts, wrestling, boxing, fencing, and special exercise rooms, handball courts and bowling alleys, is one of the most complete in New England. The Natatorium is one of the best in the country. It is in a separate building, having a glass roof, admitting abundant sunlight, and has a continuous supply of filtered salt water. The tank is 75 feet long and 25 feet wide. Adjoining the building is a large field equipped for athletics. Here are four tennis courts, outdoor gymnasium, basketball court, jumping pits and a track with a 100-yard straightaway.

Northeastern University owns and operates a large athletic field a short distance from the school. This field, known as the Huntington Field, provides ample facilities for track, soccer, baseball, football, and other outdoor sports. The school maintains a bus service between the field and the school which makes it possible for students to get back and forth with a minimum loss of time.

Through the athletic association of the University interclass contests are arranged in basketball, baseball, track, tennis, indoor and outdoor athletics, and swimming. Intercollegiate games and meets are arranged with the leading colleges in the East.

# NORTHEASTERN UNIVERSITY

## REQUIREMENTS FOR ADMISSION

### General Requirements

To pursue successfully one of the regular curriculums, the student should have completed a four-year course of study in an accredited high school of high scholastic standards. The requirements of age and scholarship are regarded as the minimum and only exceptional circumstances will justify an abridgement. Parents and guardians should bear in mind that it is generally of enduring advantage to the student if he does not enroll under the age of sixteen. Every applicant must furnish references as to his character and ability. In addition thereto he must present evidence that it is reasonable to assume that he will make a success of both his school work and engineering practice. He must possess mental and physical ability and a determination to work hard.

**One year of high school physics will be required of all applicants for admission after the school year 1925-1926.**

### Requirements for Admission to the Freshman Class

Students are admitted to the freshman class in all curriculums at the opening of the school year in September and at mid-year. The applicant to be accepted as a regular student and as a candidate for the degree must present evidence of graduation from an accredited high school or the equivalent, and to have included in his course of study six (6) Required Units and nine (9) of the Elective Units listed below. The diploma of an accredited high school is accepted as evidence of scholastic qualification for admission, if the applicant has been graduated from the *scientific, classical, or college preparatory course* and has included the six required units. A unit is the credit given to a secondary school subject performed during four or five periods, of not less than forty minutes a week throughout an entire school year except English in which case one year's work is equivalent to three-fourths of a unit. Credit in units is never allowed on certificates of tutors. Certificates of entrance examinations passed for admission to other colleges and technical schools may be accepted in lieu of entrance examinations.

## SCHOOL OF ENGINEERING

The Committee on Admission reserves the right to require a candidate to present himself for examination in any subject that the Committee on Admission may deem necessary. Credits offered in fulfilment of the entrance requirements cannot again be applied in lieu of credits which are ordinarily received during the college course. Students who obtain admission by certificate and later show a marked deficiency in entrance requirements may be classified with students having entrance deficiencies.

Entrance conditions may be permitted to the extent of two units only a minimum of thirteen units being required for conditioned admission to the freshman class. Conditions must be removed previous to taking up sophomore work.

### Specific Requirements for Admission

The applicant must offer all of the Required Subjects listed below:

<i>Required Subjects</i>	
English	3 Units (Four Years)
Algebra	1 Unit
Geometry	1 Unit
Physics	1 Unit
<hr/>	
Total	6 Units

A minimum of nine units from the following list of Elective Subjects must be offered by the applicant:

<i>Elective Subjects</i>			
Mathematics		Languages	
Advanced Algebra	1 Unit	French	1 to 3 Units
Solid Geometry	$\frac{1}{2}$ "	German	1 " 3 "
Trigonometry	$\frac{1}{2}$ "	Greek	1 " 3 "
Sciences		Latin	1 " 3 "
Astronomy	$\frac{1}{2}$ "	Spanish	1 " 3 "
Biology	1 "	History	
Botany	1 "	American	1 Unit
Chemistry	1 "	Ancient	1 "
General Science	1 "	English	1 "
Physical Geography	1 "	Medieval &	
Physiology	1 "	Modern	1 "
Zoology	1 "		

The school recognizes the fact that other subjects are credited toward graduation by secondary schools. It will, therefore, accept as a part of the nine units in the elective group certificates for work in such subjects.

## **NORTHEASTERN UNIVERSITY**

### **Special Students**

In exceptional cases students who are not high school graduates may be allowed to enter as special students but only after their cases have been favorably passed on by the Committee on Admission.

### **Application for Admission**

Each applicant for admission to the School is required to fill out an application blank whereon he states his previous education, as well as the names of persons to whom reference may be made in regard to his character and previous training.

An application fee of five dollars (\$5) is required when the application is filed. This fee is non-returnable if the applicant is accepted. If he is rejected, one-half the fee will be returned upon request.

The last page of this catalog is in the form of an application blank. It should be filled out in ink and forwarded with the required five dollar fee to Carl S. Ell, Dean, 316 Huntington Avenue, Boston, Mass.

Upon receipt of the application, properly filled out, the School at once looks up the applicants' references and high school records. When replies have been received to the various inquiries instituted, the applicant is at once advised as to his eligibility for admission to the School.

### **Immediate Assignment to Engineering Practice**

If a student, before entering his academic work, wishes to be assigned by the School to a position, he is required to fill out a registration card. A payment of forty dollars (\$40) on tuition must be paid before he will be assigned to any position at engineering practice.

Before any student shall be allowed to attend classes, he shall have made the first tuition payment. This is in addition to the application fee of five dollars (\$5) and all other fees, and may be paid at any time before school opens.

### **Subjects for Examination**

Applicants who have not satisfactorily passed algebra to quadratics, plane geometry, physics and four years of English

## SCHOOL OF ENGINEERING

in their course of study in high school are required to pass entrance examinations in these subjects.

By writing the School, prospective applicants may receive copies of former entrance examinations. These copies are available for distribution and may be obtained at any time.

### Entrance Examinations in Boston

Examinations for admission to the freshman class will be held at 316 Huntington Avenue in January, June and September of each year.

Students are advised to attend the January or June examinations, if possible, in order that any deficiencies then existing may be made up in September.

The time of examinations is as follows:

10:00 A. M. to 12 M., English.

10:00 A. M. to 12 M., Algebra.

1:00 P. M. to 3:00 P. M., Plane Geometry.

1:00 P. M. to 3:00 P. M., Physics.

During the current year the examinations will be given on the following days: January 21, 1926; June 16, 1926; September 8, 1926; January 26, 1927.

All other examinations by special assignment.

No fees are to be paid at the time of the examination.

### Preparatory Schools

Day and evening preparatory schools are conducted in conjunction with Northeastern University. Students having entrance conditions, or requiring further preparation for the entrance examinations, may avail themselves of this opportunity to cover the desired work.

### Provisional Acceptance

When, for any reason it is deemed advisable, the School reserves the right to place any entering student upon a period of probation, extending from five to twenty weeks. Whether he shall be removed from probation at the end of this time or requested to withdraw will be determined by the character of the work he has accomplished and his conduct during this probationary period.

# **NORTHEASTERN UNIVERSITY**

## **DETAILED INFORMATION**

### **Location**

The School is housed in the three buildings of the Association, the Vocational Building on St. Botolph St., in the rear of the Main Buildings, and the Huntington Building opposite the Main Building.

The buildings are located on Huntington Avenue, just beyond Massachusetts Avenue, and are within easy access to the various railroad stations, and the business and residential sections. A map is shown on page 68.

### **Transportation**

The chief railroad centers of Boston are the North and South Stations. From the North Station board a car going to Park Street at which junction transfer to any Huntington Avenue car which will discharge you close to the main entrance of the School building. At South Station board a Cambridge subway train for Park Street Under, there change to a Huntington Avenue car and alight at Gainsborough Street a short distance from the Main Building of Northeastern University.

### **Residence**

It has been found to be much more satisfactory for the student to live within easy access of Boston, especially during periods in school, than to live out twenty-five or thirty miles. The saving of time and effort more than offsets any increased expense.

Residence in Boston is advisable, as it gives the student opportunity to use the college facilities outside of class hours, and to confer more easily with his instructors about his college work. It also gives him a wider range in the choice of a co-operating position, since he can readily report for early work, if necessary, which is often impossible if the student lives at a distance from Boston. Moreover, residence in Boston gives the student close connection with the activities of college life.

# SCHOOL OF ENGINEERING

## Dormitories

At present the School does not maintain dormitories, however provision is made to secure rooms in the vicinity of the School or in the Y. M. C. A. dormitory—whenever possible—for all students who desire such reservation. For information relative to housing write the Director of Housing.

## Housing Regulations

We are compelled to make agreements with the landladies who furnish accommodations for our students. The School endeavors to exercise due consideration and care for the student's welfare while in residence at school. These combined facts necessitate the adoption of rules and regulations presented herewith.

1. Assignments will be made when the student registers.
2. Students may inspect rooms before accepting an assignment; after reaching a decision same must be reported to the office of the Director of Housing, Room 30H.
3. Students who accept room assignments must retain same for the period of their residence during 1926-1927, unless given permission, by the Director of Housing, to change.
4. SECTION 1. All students living in Boston—whether assigned by the Director of Housing or securing accommodations without such aid—must fill out a room registry card in the office of the Director of Housing.

SECTION 2. Students living at home or with relatives must notify the Director of Housing if a change is made which involves rooming elsewhere than at home or with relatives.

5. Rooms secured by students will be inspected; if disapproved by the committee, the student will be requested to find other accommodations or to accept assignment by the School.

6. Students are expected to observe the general accepted decencies of life and proprieties of American citizenship.

7. Violation of any of the above rules is considered a breach of discipline and will be dealt with accordingly.

# **NORTHEASTERN UNIVERSITY**

## **School Year**

The First Semester for Division A begins each year on the second Monday in September, this constituting the beginning of the school year for all students. The second Summer Term for freshmen follows the vacation period and closes the official school year.

## **Scholastic Year for Seniors**

Seniors of either division, who are candidates for a degree in the current year, must have completed all academic work; class assignments, theses, regular and special examinations, before twelve o'clock noon of the Saturday next following the close of recitations for seniors, but in no case will the interval allowed be less than one week.

## **Attendance**

Students are expected to attend all exercises in the subjects they are studying unless excused by the Registrar. Students who are absent from their last exercise preceding or from the first school exercise after a holiday or recess period are required to pay a fine of two dollars (\$2). Exercises are held, and students are expected to devote themselves to the work of the School, between 9.00 A. M. and 5.00 P. M. except for an hour lunch period, on every week day except Saturday. Saturday classes are held only between 9.00 A. M. and 1.00 P. M.

## **Four-Year Curriculums**

The School offers four-year college curriculums of study in co-operation with engineering firms, in the following branches of engineering, leading to the Bachelor's Degree:

1. Civil Engineering
2. Mechanical Engineering
3. Electrical Engineering
4. Chemical Engineering
5. Administrative Engineering

Descriptions of the curriculums and schedules showing the subjects of instruction included will be found on succeeding pages.



## SCHOOL OF ENGINEERING

### Tuition Fee

The tuition fee in each curriculum is one hundred and ninety dollars (\$190) a year for each of the four years for all students classified as freshmen and for upper classmen on the Co-operative Plan who enter the University after September 1, 1926. The tuition for freshmen is payable as follows:

#### *DIVISION A*

<i>School Periods</i>	<i>Tuition Due</i>
Sept. 13, 1926 to Jan. 29, 1927	\$90 Sept. 13, 1926
and	\$75 Dec. 6, 1926
Aug. 15, 1927 to Sept. 10, 1927	\$25 at beginning of summer term work.

#### *DIVISION B*

<i>School Periods</i>	<i>Tuition Due</i>
Jan. 31, 1927 to June 18, 1927	\$90 Jan. 31, 1927
and	\$75 April 25, 1927
June 20, 1927 to July 16, 1927	\$25 at beginning of summer term work.

The tuition for Sophomore, Junior and Senior students on the Co-operative Plan for 1926-1927 is \$175 and is payable as follows: Sixty dollars (\$60) at the beginning of the first school period; fifty dollars (\$50) at the beginning of the second school period; fifty dollars (\$50) at the beginning of the third school period; and fifteen dollars (\$15) at the beginning of the fourth school period.

The tuition fee in each curriculum for full-time students is two hundred and forty dollars (\$240) a year and is payable as follows:

#### *DIVISION AA*

<i>School Period</i>	<i>Tuition Due</i>
Sept. 13, 1926 to May 14, 1927	\$75 Sept. 13, 1926
	\$60 Nov. 22, 1926
	\$60 Jan. 31, 1927
	\$45 April 11, 1927

# NORTHEASTERN UNIVERSITY

## DIVISION BB

<i>School Period</i>	<i>Tuition Due</i>
Oct. 18, 1926 to June 18, 1927	\$75 Oct. 18, 1926 \$60 Dec. 27, 1926 \$60 Mar. 7, 1927 \$45 May 16, 1927

Students who are registered for more school work than that prescribed in the catalog for the year in which they are enrolled, are charged two dollars (\$2) an hour per semester. In computing additional hours, the catalogue schedules are used and both hours of exercises and hours of preparation are counted.

Failure to make the required payments on time, or to arrange for such payments, is considered sufficient cause to bar the student from classes or suspend him from engineering practice until the matter has been adjusted with the Bursar.

### **Membership in the Y. M. C. A.**

The yearly tuition fee includes membership in the Boston Y. M. C. A. This fee is not included in the tuition for special summer term students.

### **General Laboratory Fee**

All students whether on the co-operative or full-time are charged a general laboratory fee of ten dollars (\$10) each year. This fee is payable at the time of registration.

### **Student Activities Fee**

Each student in the School is charged a student activities fee of fifteen dollars (\$15). Freshmen pay \$10 of this fee at the time of registration and \$5 with the second payment on tuition. Upper classmen pay five dollars (\$5) on this fee at the time of each of the first three payments on tuition. This fee supports certain student activities, and includes membership in the *Northeastern University Athletic Association*, subscription to the *Northeastern Tech*, the school paper, and subscription to the *Cauldron*, the college year book. The services of

## **SCHOOL OF ENGINEERING**

a physician are also available under this fee. Only minor ailments, however, are treated. Should the student shows signs of more serious illness, he is immediately advised to consult a specialist or return to his home, where he can get more adequate treatment.

### **Chemical Laboratory Deposit**

All students taking chemical laboratory work are required to make a deposit of ten dollars (\$10) at the beginning of each year, from which deductions are made for breakage, rentals, and destruction of apparatus in the laboratory. Any unused portion of this deposit will be returned to the student at the end of the school year. In case the charge for such breakage, rentals or destruction of apparatus is more than ten dollars (\$10), the student will be charged the additional amount.

### **Graduation Fee**

A fee of ten dollars (\$10) covering graduation is required of all candidates for a degree. This fee must be paid at the beginning of the second semester of the student's senior year.

### **Payments**

All payments should be made at the bursar's office.

Checks should be made payable to Northeastern University.

### **Refunds**

The University assumes the obligation of carrying the student throughout the year. Instruction and accommodations are provided on a yearly basis, therefore no refunds are granted except in cases where students are compelled to withdraw on account of personal illness.

### **Books and Supplies**

All supplies may be purchased from the University Book Store at a cost of twenty (\$20) to thirty (\$30) dollars per year. Supplies for the freshman year aggregate somewhat more because a set of drawing instruments must be obtained. The earnings of the students for their services with the co-

## NORTHEASTERN UNIVERSITY

operating firms considerably exceed the cost of tuition, fees, books, supplies, and incidental expenses. The purchase of supplies is therefore not a burden to the student.

### \*TABULAR SUMMARY OF APPROXIMATE SCHOOL EXPENSES PER YEAR CO-OPERATIVE PLAN

<i>Item</i>	<i>Low</i>	<i>Average</i>	<i>High</i>
†Application Fee .....	\$ 5	\$ 5	\$ 5
Tuition .....	190	190	190
General Laboratory Fee .....	10	10	10
Student Activities Fee .....	15	15	15
Room Rent (20 weeks) .....	65	80	105
Board (20 weeks) .....	130	175	215
Books and Supplies (exclusive of Drawing Instruments) .....	20	25	30
Laundry (20 weeks) .....	10	20	30
Incidentals (20 weeks) .....	15	35	75
<b>Total</b> .....	<b>\$460</b>	<b>\$545</b>	<b>\$675</b>

\*Compiled from expense returns made by the student body.

†Payable first year only.

### \*TABULAR SUMMARY OF APPROXIMATE SCHOOL EXPENSES PER YEAR FULL-TIME PLAN

<i>Item</i>	<i>Low</i>	<i>Average</i>	<i>High</i>
†Application Fee .....	\$ 5	\$ 5	\$ 5
Tuition .....	240	240	240
General Laboratory Fee .....	10	10	10
Student Activities Fee .....	15	15	15
Room Rent (35 weeks) .....	105	130	180
Board (35 weeks) .....	230	300	380
Books and Supplies (exclusive of Drawing Instruments) .....	30	35	40
Laundry (35 weeks) .....	18	35	50
Incidentals (35 weeks) .....	20	50	100
<b>Total</b> .....	<b>\$673</b>	<b>\$820</b>	<b>\$920</b>

\*Compiled from expense returns made by the student body.

†Payable first year only.

## Students' Self-Help

Students who find it necessary to accept part-time jobs, while attending school, may through the Engineering Practice Department obtain spare-time work doing odd jobs.

No student is justified in assuming that the Engineering Practice Department will "take care of his expenses" or guarantees to supply him with work sufficient to meet all his needs.

## **SCHOOL OF ENGINEERING**

A student should have on hand at the time of registration a reserve fund adequate to provide for immediate needs or unexpected contingencies. This should ordinarily amount to at least the first year's tuition plus the student activity and other fees, room rent and board for several weeks or a total of about \$300.

### **Elective Subjects**

Students electing courses not included in their curriculum will be required to take all examinations in such courses and to attain a passing grade in them before they will be eligible for a degree.

### **Status of Students**

The ability of students to continue their courses is determined by means of classroom work and examinations, but regularity of attendance and faithfulness to daily duties are considered equally essential.

When a student elects a curriculum, he is required to complete all courses included therein in order to graduate. No subject is to be dropped, or omitted, without the consent of the Administrative Committee and the approval of the Dean.

Any student failing to make a satisfactory record, either in school or practical work, may be removed from his position in practical work, or from the School.

Students transferring from approved colleges will be admitted to advanced standing provided their record warrants such a procedure. Whenever a student enters with advanced standing and later proves to have inadequate preparation in any of his pre-requisite subjects, the Faculty reserves the right to require the student to repeat in class the subjects in question.

A special student is permitted, subject to the approval of the Faculty, to register for and take such courses as the School offers. However, special students are not eligible for a degree.

### **Examinations**

Examinations covering the work of the term are usually held

## NORTHEASTERN UNIVERSITY

at the close of each term. Exceptions may be made in certain courses, where, in the opinion of the instructor, examinations are not necessary.

Condition examinations will be given in all subjects during the week of July 11, 1927, and the week of September 5, 1927. Condition examinations are not given for courses in which no final examination was given.

Special examinations may be arranged for only by vote of the Administrative Committee and for all such examinations the University requires the payment of a special fee of five dollars (\$5).

### Probation

Students are placed on probation either by the Executive Committee or the Administrative Committee. Failure to show proper respect for constituted authority; infringement of the rules and regulations of the college; disregard of obligations to a co-operating firm, etc., constitute insubordination. All matters of insubordination are handled by the Executive Committee and the penalty for such may be probation or expulsion from the University.

Failure to meet the standards set by the Administrative Committee, unless the failure is supported by causes wholly beyond the student's control, will necessitate the Committee placing the student on probation.

Removal from probation is in the hands of the committee placing the student thereon.

### Rules of Standing in Scholarship

A student's grade is officially recorded by letters and percentages, as follows:

A, excellent, 90-100 per cent.

B, good, 80-89 per cent.

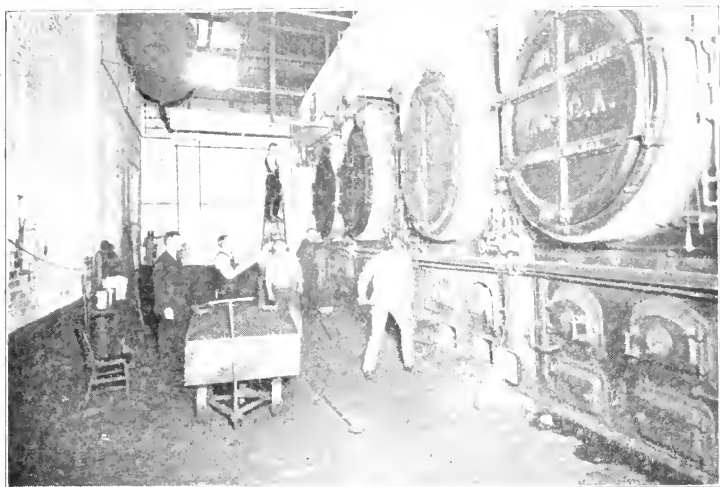
C, fair, 70-79 per cent.

D, passable, 60-69 per cent.

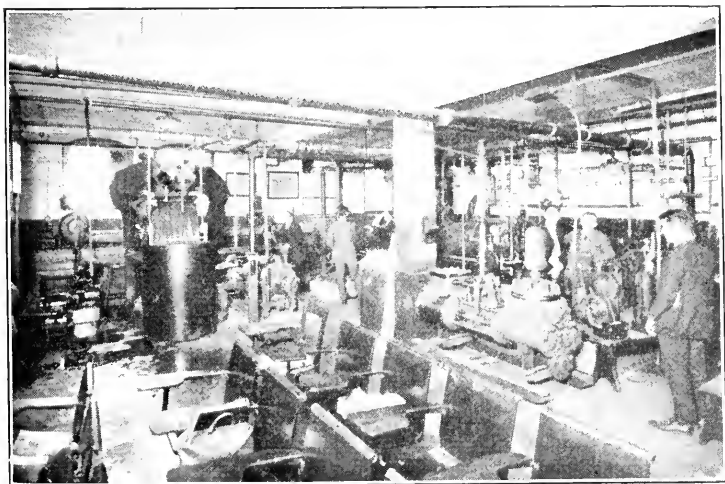
F, failure, work unsatisfactory, 40-59 per cent.

FF, complete failure, below 40 per cent.

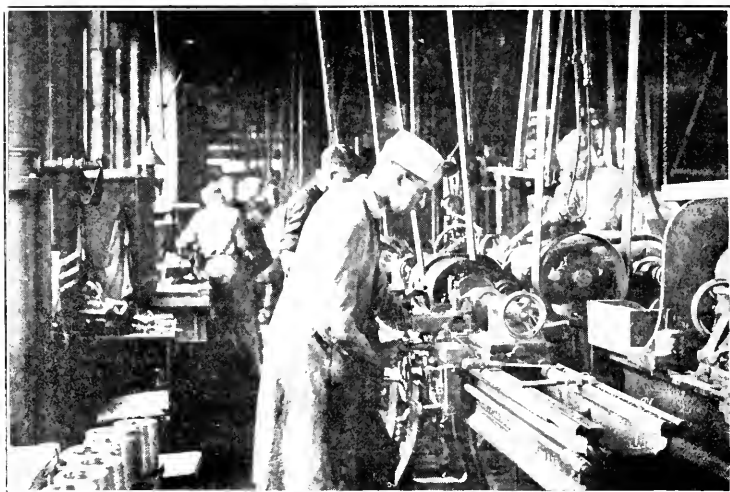
I, incomplete.



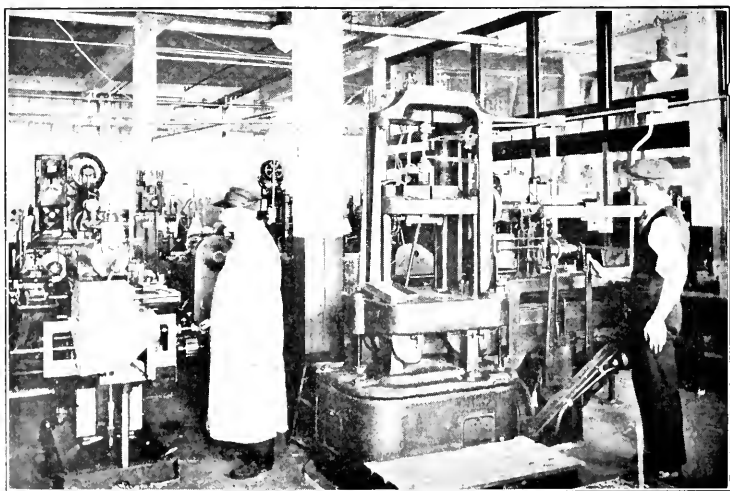
Evaporation Test on Coal and Oil Burning  
Boilers, Mechanical Engineering Laboratory



Experimental Tests in Mechanical Laboratory



Finished Castings, Blanchard Machine Company, Cambridge



Making Tensile Tests on Steel,  
General Electric Company, Lynn



## SCHOOL OF ENGINEERING

A mark of F in any particular subject entitles the student to make up the unsatisfactory work, or to take a condition examination. This letter is given for all grades below 60 per cent. on intermediate reports.

A mark of FF denies the privilege of taking a condition examination, and the course must be repeated.

A mark of I is used for intermediate grades only and signifies that the course may not have progressed sufficiently far to give a grade or that the student has not had time to make up work lost through excusable enforced absence from class.

A student who does not remove a condition before that course is against scheduled, a year later must repeat the course. A condition in more than one subject involves the loss of the privilege of being a candidate for graduation with the student's class, and may involve the loss of assignment to engineering practice.

The responsibility for the removal of a condition rests with the student, who is required to ascertain when and how the condition can be removed.

No student may qualify as a candidate for a degree in any given year unless clear in all the required subjects of the lower years of his chosen curriculum. He must also be in good standing in all courses for which he is enrolled.

Entrance requirements or preparatory subjects pursued in the School are considered as required school work.

### Absences

No "cuts" are allowed. A careful record of each student's attendance upon class exercises is kept. Absence from regularly scheduled exercises in any subject will seriously affect the standing of the student. It may cause the removal of the subject or subjects from his schedule and the listing of these as conditioned subjects. In case he presents a reasonable excuse for the absence, however, he may be allowed to make up the time lost and be given credit for the work; but he must complete the work at such time and in such manner as his instructor in the course may designate.

Laboratory work can be made up only when it is possible

## NORTHEASTERN UNIVERSITY

to do so during hours of regularly scheduled instruction. Absences from exercises immediately preceding or following a recess are especially serious and entail severe penalties.

Attendance at all mass meetings of the student body is compulsory. Exceptions to this rule are made only when the student has received permission from the Director of Student Activities, previous to the meeting from which he desires to be absent.

### Report Cards

Reports are issued four times a year, one at the end of each five-week school period. In addition, a special report on the subjects pursued during the summer term will be issued immediately at its close. Questions relative to grades are to be discussed with the student's faculty adviser.

Students are constantly warned and advised to maintain a grade of work which is of acceptable quality. Parents and students are always welcomed by the Dean, the Registrar, and advisers for conference upon such matters. Special reports on a student's work will be sent to parents at the end of each five-week school period.

Parents or guardians will be notified in all cases when students are advised or required to withdraw from the School.

### Conduct

It is assumed that students come to the School for a serious purpose, and that they will cheerfully conform to such regulations as may from time to time be made. In case of injury to any building, or to any of the furniture, apparatus, or other property of the School, the damage will be charged to the student or students known to be immediately concerned; but if the persons who caused the damage are unknown, the cost for repairs may be assessed equally upon all the students of the School.

Students are expected to observe the accepted rules of decorum, to obey the regulations of the School, and to pay due respect to its officers. Conduct inconsistent with the general good order of the School, or persistent neglect of work, if repeated

## **SCHOOL OF ENGINEERING**

after admonition, may be followed by dismissal, or, in case the offense be a less serious one the student may be placed upon probation. The student so placed upon probation may be dismissed if guilty of any further offense.

It is desired to administer the discipline of the School so as to maintain a high standard of integrity and a scrupulous regard for truth. The attempt of any student to present, as his own, any work which he has not performed, or to pass any examination by improper means, is regarded as a most serious offense, and renders the offender liable to immediate expulsion. The aiding and abetting of a student in any dishonesty is also held to be a grave breach of discipline.

### **Advisers**

Each freshman is assigned to a faculty adviser, who takes an active interest in the student's welfare, guiding and assisting him in the satisfactory pursuit of his studies, keeping close watch on all matters which tend to hamper the student in his college life and preventing such in so far as possible.

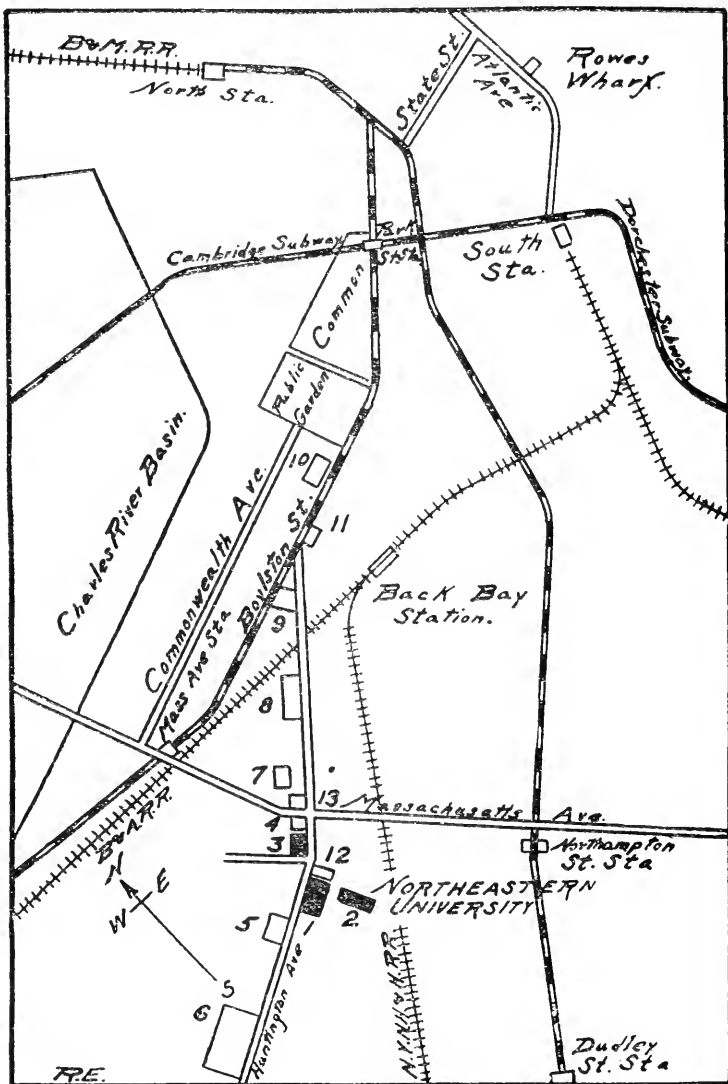
The function of the adviser to upper classmen is somewhat different and tends more toward consultation and suggestion bearing on the student's plans and probable work after graduation.

Men engaged in student activities are assigned to special advisers, who keep a constant watch over the academic progress of the student.

### **Relation of Students to General Public**

Non-resident students are temporarily guests of Boston and therefore must respect the wishes, rights and laws of the public, whose hospitality the students accept. If accused of conduct unbecoming a gentleman and such accusation be substantiated upon investigation, the offender may be suspended or expelled from the School.

# NORTHEASTERN UNIVERSITY



MAP OF IMMEDIATE VICINITY  
(For key see next page)

## **SCHOOL OF ENGINEERING**

1. ADMINISTRATION BUILDING  
BOSTON Y. M. C. A.
2. VOCATIONAL BUILDING
3. HUNTINGTON BUILDING
4. SYMPHONY HALL
5. BOSTON OPERA HOUSE
6. BOSTON MUSEUM OF FINE ARTS
7. CHRISTIAN SCIENCE CHURCH
8. MECHANICS EXHIBITION HALL
9. BOSTON PUBLIC LIBRARY
10. MUSEUM OF NATURAL HISTORY
11. TRINITY CHURCH
12. NEW ENGLAND CONSERVATORY OF MUSIC
13. HORTICULTURAL HALL

# **NORTHEASTERN UNIVERSITY**

## **STUDENT ACTIVITIES**

A moderate participation in social and athletic activities is encouraged by the Faculty, although a standard of scholarship which is incompatible with excessive devotion to such pursuits is required of all students.

### **Student Activities Committee**

This committee, consisting of the treasurers elected in the various classes, has general supervision over all social functions of the School. It aims to further the interests of such organizations as the chess club, radio club, and other groups which do not come under the jurisdiction of any special body. The committee has supervision of a Student Activities Room, a club room for all members of the School. Here the various clubs may hold their meetings, and the individual may spend his time outside of class room either in study or recreation. In order to provide for the social intercourse of the students, as well as to enable the men in the different divisions to meet one another, socials and entertainments are held at such times as are convenient for all to attend.

### **Northeastern University Athletic Association**

The Athletic Association consists of all students in the Schools of Engineering and Business Administration.

At the head of the Association is the Faculty Committee on Athletics, appointed by the Deans of the Schools. This committee must approve all general policies in regard to athletics in particular, schedules and absences from school due to athletics. The General Athletic Committee, consisting of certain members of the Faculty and the coaches and captains of the various teams, has charge of the administration of athletics.

Under the guidance of efficient athletic coaches; track, basketball, baseball, soccer, and wrestling teams are formed. Schedules are arranged with other colleges for home games and games abroad. Interclass baseball, tennis, swimming, and other sports are also encouraged. Interclass and interdivision meets are held during the year.

## **SCHOOL OF ENGINEERING**

### **Mass Meeting**

Every Wednesday, from 12 to 1, mass meetings are held. Attendance at these meetings is compulsory. The second and fourth mass meetings of each five-week period are, as a rule, devoted to a lecture by some prominent visitor. The first, third and fifth mass meetings of each period are under the direction of the Department of Student Activities.

### **The "Northeastern Tech"**

The students issue a weekly paper called the *Northeastern Tech*. Here the students have an opportunity to express their opinions on subjects relating to study, engineering practice, social events, or topics of the day. In addition, college news, editorials, and official announcements make this feature of activities very valuable. Positions on the editorial and business staffs of the paper are attained by competitive work.

### **"The Cauldron"**

"The Cauldron" is the year book of the School. The Senior Class is responsible for its publication, the members of the staff are chosen through competitive work. The book is ready for distribution in the latter part of the second semester. It contains the usual review of the year's work and activities, a complete history of all classes in the School, all their functions, socials, pictures, etc. It also contains a complete biographical sketch of each member of the graduating class, therefore is a souvenir highly prized in later years by graduates.

### **The Handbook**

Issued at the beginning of each year, the purpose of the Handbook is to help promote an early intimacy with the scope of college life. The book is of special interest to new men as it contains detailed information concerning all the organizations of the School. Schedules, a daily diary, songs, cheers, and important dates in the college calendar make the book of great value to upper classmen.

### **Student Activities Fund Committee**

In order to help finance the foregoing student activities, a Student Activities Fund Committee has been formed, consist-

## NORTHEASTERN UNIVERSITY

ing of the Chairman of the Student Activities Committee, the Editor-in-Chief of *The Northeastern Tech*, and the Secretary of the Athletic Association. Members of the Faculty interested in these branches of the activities are also on this committee. The committee apportions the student activities fees among the various activities.

### **Student Council**

This is the student governing body and consists of members elected from each curriculum and from each class, as well as the leaders of the various classes, organizations, clubs, and teams. It acts as the supreme governing body. It has jurisdiction, under proper supervision of the Faculty, over all student matters, such as customs, privileges, and such other matters as can properly be decided upon by such a body.

### **The Senate**

The Senate is an honorary society composed of men who have shown exceptional ability both by high scholastic standing and a live interest in student activities.

### **The Inter-Fraternity Council**

Elected representatives from each fraternity, as well as a non-fraternity representative from each division, make up the Inter-Fraternity Council. This body has preliminary jurisdiction over laws governing the regulation of fraternities and clubs in the School.

### **Professional Societies**

The students in the various curriculums are organized as a professional society, known as the Northeastern University Engineering Society, for the closer association of the students of the School, and for the discussion and consideration of various problems and new knowledge in the engineering field, which would not ordinarily come into their regular courses. Meetings are held every week at which the society is addressed by members of the society and by engineers of prominence.

There are four sections of the society, the Civil, Mechanical, Electrical, and Chemical Engineering Sections. These sections are affiliated either by individual membership or as a section with the Boston Society of Civil Engineers, the American So-



## SCHOOL OF ENGINEERING

society of Mechanical Engineers, the American Institute of Electrical Engineers, and the American Chemical Society, thereby procuring for the individual that most valuable association with the successful practicing engineers of the community, and the various problems discussed by them.

### Annual Prizes

Prizes are awarded annually for excellence in the various departments of school activities. Such prizes should stimulate the interest of the student to attain a high proficiency in some branch of undergraduate endeavor.

### Public Speaking

Cash prizes of fifty, twenty-five, ten, and three prizes of five dollars each are offered yearly by Arthur S. Johnson, the Chairman of the Board of Trustees, for excellence in the presentation of original speeches before the School at a regular student mass meeting. All students are eligible to compete for these prizes. The regulations for the contests are published in the *Northeastern Tech* early in the year.

### Engineering Conferences

The Department of Engineering Practice awards annually silver trophy cups to two men in each of the professional departments who deliver the best addresses upon engineering topics before regular meetings of the engineering society. All regular juniors and seniors are eligible to compete for these cups.

### The Northeastern Union

Northeastern University is conducted by the Boston Y. M. C. A., and though non-sectarian, it is thoroughly Christian in character. The purpose of the Northeastern Union is to carry out the work of the Christian Association within the University. It endeavors to deepen the spiritual lives of Northeastern men through the building of Christian character, to create and promote a strong and effective Northeastern University spirit in and through a unified student body, to promote sociability within the school, and to emphasize certain ethical, social, civic, intellectual, economic, physical, vocational, and avocational values.

## **NORTHEASTERN UNIVERSITY**

All students are encouraged to participate in the activities of the Union, as no matter what their religious faith, the work of the Union is entirely non-sectarian. No attempt is made in any way to influence one to participate in any activities which are contrary to the tenets of any particular religion. A good moral character is the only requirement for eligibility to membership. It is hoped as many students as can will participate in this ideal extra curricula work.

The Union organizes various branches. One of its most conspicuous branches is the Social Science Organization, which endeavors to bring before the student body leading men who are foremost in the various branches of the social sciences. These talks are open to all members of the school body and are held at a time when the entire student body can attend.

### **Moral and Religious Influences**

Many of the churches of Boston have cordially thrown open their doors to students providing special programs, discussions, hikes, conference hours and so forth.

Through the Northeastern Union students are informed of the location, hours of service, religious activities and special attractions of all the churches of Boston.

### **Northeastern University Club**

The Northeastern University Club of Boston was organized in the spring of 1921, with graduates of the Schools of Law, Commerce and Finance, and Engineering as charter members.

The purpose of the Club is to promote social activities among the alumni of Northeastern University; to perpetuate the Northeastern spirit in the business life of the community; to give to their Alma Mater the benefit of the experience of the alumni in the School and of their experience in business and professional activities since their graduation.

Any man of good character, twenty-one years of age or over, who is a graduate of the Schools of Northeastern University granting a degree or who has attended such schools for a period of two full years is eligible for membership.

# SCHOOL OF ENGINEERING

## REQUIREMENTS FOR GRADUATION

The School grants the degrees of :

- Bachelor of Civil Engineering.
- Bachelor of Mechanical Engineering.
- Bachelor of Electrical Engineering.
- Bachelor of Chemical Engineering.
- Bachelor of Administrative Engineering.

To receive a degree in engineering the student must be a resident of the School for at least one year, immediately preceding the date on which he expects to graduate. He must complete the prescribed studies of the four years, and pass final examinations, if required, on subjects included in his curriculum. In addition to this, he must complete satisfactorily a schedule of engineering practice or full-time courses under the supervision of the Faculty. The student must, also, prepare a thesis as defined elsewhere in this catalog. All theses and records of work done in preparation of theses, are the permanent property of the School.

The credits required for the degree are as follows:

Engineering Curriculum . . . . .	164 credits
Engineering Practice or General Subjects during sophomore and junior years . . . . .	48 credits
Engineering Practice during senior year . . . . .	20 credits
<hr/>	
Total credits required for degree . . . . .	232

All subjects in the engineering curriculum are required. One hundred and sixty-four credits are granted for the satisfactory completion of the equivalent of this curriculum. Twenty-four credits are granted for the satisfactory completion of one year's work at engineering practice during each of the sophomore and junior years, and 20 credits for work during the senior year. Two credits are granted for the satisfactory completion of each of the general subjects which are offered on the full-time plan. Credits are granted only at the close of the school year.

## **NORTHEASTERN UNIVERSITY**

The degree of the School represents not only the formal completion of the subjects in the selected course of study, but also the attainment of a satisfactory standard of general efficiency. Any student who does not show in the fourth-year work of his curriculum that he has attained such a standard, may be required, before receiving the degree, to take such additional work as shall prove his ability.

### **Graduation with Honors**

Honors are based upon excellence of scholarship maintained by students while in residence. Two honorary distinctions are conferred upon properly qualified students at graduation.

1. Those who complete all scholastic work with an average above ninety per cent are graduated **WITH HIGH HONORS**.

2. Those who complete all scholastic work with an average between eighty and ninety per cent are graduated **WITH HONOR**.

Students graduating with honors must have been in residence at least two years immediately preceding graduation.

### **Positions Held by Graduates**

The graduates of the School have been able to secure positions of high grade, commanding proportionate salaries. Positions as construction engineers, power plant engineers, electrical engineers, designing draftsmen, State and Federal employees under Civil Service, and instructors are now held by graduates of the School. The success of those who have been graduated from the School is the best evidence of the value and thoroughness of the training offered.

# SCHOOL OF ENGINEERING

## PROGRAM OF STUDIES

### General Statement

The Engineering and Full-time Curriculums are given on the following pages. The first year, it will be observed, is practically the same in all curriculums. A few exceptions are made where students need special elementary training in their professional subjects, in order to be of more service to their employers while on engineering practice.

The regular school year comprises two terms of ten weeks, with an additional period of four weeks for freshmen. The first ten-week term for each division is called the First Semester; the second ten weeks, the Second Semester; and the additional four-week period for freshmen, the Summer Term.

Three additional periods of five weeks each are required of students on the full-time plan. These periods are known as First, Second and Third Terms, and occupy the intervals between the regular engineering terms. (See page 88.)

In the following tabular summary of curriculums (pp. 78-88) each course is followed by two numbers: the first under the column marked "Cl," indicates the number of class hours of recitation, laboratory, drawing room, or field work a week; the second number, under the column marked "Out" indicates the number of hours of "outside preparation" that have been assigned as the minimum weekly requirement for each course. The work is so planned that the student will be required to spend from forty-eight to fifty-two hours per school week in preparation and class work.

The number preceding each course is a subject index number referring to the Synopses of Courses, beginning on page 90.

Those courses preceded by 0 indicate general subjects. The work which is under the direction of the General Departments is designated as follows: 01, Department of English; 02, Department of Mathematics; 03, Department of Physics; and 04, Department of Drawing, etc.

The subject numbers beginning with 1 indicate subjects pertaining strictly to the Department of Civil Engineering; subject numbers beginning with 2, to the Department of Mechanical Engineering; 3, to the Department of Electrical Engineering; 4, to the Department of Chemical Engineering; and 5, to Administrative Engineering.

# NORTHEASTERN UNIVERSITY

## CIVIL ENGINEERING

The Civil Engineering Curriculum is designed to give the student a thorough foundation in those subjects which form the basis of a technical engineering education, and special training in those subjects comprised under the term "Civil Engineering." The student receives theoretical and practical training in the sciences upon which professional practise is based.

Civil engineering covers such a broad field that no one can become expert in its whole extent. It includes topographical engineering, municipal engineering, railroad engineering, structural engineering, and hydraulic and sanitary engineering. It covers land surveying, the building of railroads, harbors, docks, and similar structures; the construction of sewers, waterworks roads and streets; the design and construction of girders, roofs, trusses, bridges, buildings, walls, foundations, and all fixed structures. All of these branches of engineering rest, however, upon the relatively compact body of principles, and in these principles the students are trained by practice in the class room, drawing room, the field, and the testing laboratory. The curriculum is designed to prepare the young engineer to take up the work of design and construction of structures, to aid in the location and construction of railways and highways and to undertake intelligently supervision of work in the allied fields of mining, architectural, and electrical engineering, and general contracting.

**SCHOOL OF ENGINEERING**

## CURRICULUM I. CIVIL ENGINEERING

## FIRST YEAR

FIRST SEMESTER				Hours per week	SECOND SEMESTER				Hours per week		
				Cl	Out					Cl	Out
010-1	English	3	6			010-1	English	3	6		
020-1	College Algebra	4	6			022-1	Analytic Geometry	4	6		
021-1	Trigonometry	3	6			031-1	Physics	4	8		
041-1	Mechanical Drawing	5	0			041-2	Mechanical Drawing	4	0		
060-1	Physical Training	2	0			060-1	Physical Training	2	0		
11-1	Surveying	2	4			11-2	Surveying	2	4		
11-3	Surveying, F. & P.	5	0			11-4	Surveying, F. & P.	5	0		
SUMMER TERM											
012-1 History of Science				5	10						
043-1 Descriptive Geometry				20	10						

## SECOND YEAR

FIRST SEMESTER			Hours per week Cl Out	SECOND SEMESTER			Hours per week Cl Out
023-1	Differential Calculus	4	6	023-2	Integral Calculus	3	6
032-1	Light	3	3	033-1	Heat	3	4
034-2	Physics Laboratory	2	2	034-3	Physics Laboratory	2	2
11-5	Surveying	2	4	12-1	Railroad Surveying	3	4½
11-6	Surveying, F. & P.	5	0	12-2	Rd. Surveying, F. & P.	5	0
21-1	Applied Mechanics	3	6	21-2	Applied Mechanics	3	6
30-1	Applied Electricity I	3	3	30-3	Applied Electricity II	3	3
30-4	Applied Electricity Lab.	3	0	30-4	Applied Electricity Lab.	3	0

### THIRD YEAR

FIRST SEMESTER				Hours per week	SECOND SEMESTER				Hours per week		
				Cl	Out					Cl	Out
014-1	Economics	.....	3	4	014-1	Economics	.....	3	4		
050-1	Engineering Conference	..	2	0	050-1	Engineering Conference	..	2	0		
13-1	Hydraulics	.....	3	6	14-1	Theory of Structures	....	3	6		
14-5	Structural Drawing	....	3	0	14-6	Structural Drawing	....	3	0		
16-4	Geology	.....	2	4	16-2	Testing Materials Lab.	..	2	2		
21-3	Strength of Materials	....	3	6	16-2	Testing Materials Lab.	..	2	2		
12-3	Railroad Engineering	....	2	4	23-3	Heat Engineering	.....	3	6		
12-4	Rrd. Engineering, F. & P.	5	0	0	40-1	Inorganic Chemistry	....	3	4		

### FOURTH YEAR

FIRST SEMESTER			Hours per week	SECOND SEMESTER			Hours per week
			Cl Out				Cl Out
050-2	Engineering Conference	2	0	050-2	Engineering Conference	2	0
052-1	Thesis	1	3	052-1	Thesis	1	6
14-3	Engineering Structures	6	9	14-3	Engineering Structures	6	9
14-7	Structural Design	6	3	14-8	Structural Design	6	3
16-1	Materials	2	4				
15-1	Concrete	2	4	15-1	Concrete	2	4
15-2	Concrete Design	3	0	15-2	Concrete Design	3	0
16-3	Foundations	2	2	17-1	Highway Engineering	2	4

# **NORTHEASTERN UNIVERSITY**

## **MECHANICAL ENGINEERING**

The Mechanical Engineering Curriculum is designed to give the student a broad foundation in those fundamental subjects which form the basis for all professional engineering practice, and especially to equip the young engineer with a knowledge of the various phases of Mechanical Engineering. The curriculum embraces instruction by text-book, lecture, laboratory, drafting and designing room practice, with special reference to the following branches: applied mechanics, heat engineering, industrial engineering, hydraulic engineering, applied electricity, machine design, and experimental engineering.

Along with the theoretical work, there runs a well planned laboratory course which is expected to develop the students' initiative and instill accuracy. The students perform the tests themselves on the machines such as engines, compressors, pumps, and other power plant equipment, and make reports on the results obtained.

The instruction aims to develop in the student the ability to think clearly and logically in the application of fundamental principles to engineering problems. The class-room work in the professional subjects is arranged with due regard to modern industrial conditions, in order that the student may connect theory with practice and appreciate the necessity of both in order to become a successful engineer. With this in view, special courses are given involving a discussion of problems which have presented themselves to the students and requiring a familiarity with the contents of current engineering periodicals. At all times it is sought to develop self-confidence in the student, and he is encouraged to take the initiative.

The Mechanical Engineering Department trains men capable of designing, erecting, testing, organizing, and managing. The department aims to produce trained engineers, whose knowledge of fundamentals, technical theory, and engineering judgment qualify the young graduate to develop in the engineering field and ultimately hold positions of responsibility.



# SCHOOL OF ENGINEERING

## CURRICULUM II. MECHANICAL ENGINEERING

### FIRST YEAR

FIRST SEMESTER			SECOND SEMESTER		
Hours per week			Hours per week		
Cl Out			Cl Out		
010-1	English .....	3 6	010-1	English .....	3 6
020-1	College Algebra .....	4 6	022-1	Analytic Geometry .....	4 6
021-1	Trigonometry .....	3 6	031-1	Physics .....	4 8
041-1	Mechanical Drawing .....	5 0	041-3	Mechanical Drawing .....	8 1
060-1	Physical Training .....	2 0	060-1	Physical Training .....	2 0
24-1	Production Engineering...	4 6	40-1	Inorganic Chemistry .....	4 4
SUMMER TERM					
012-1 History of Science.....			5 10		
043-1 Descriptive Geometry .....			20 10		

### SECOND YEAR

FIRST SEMESTER			SECOND SEMESTER		
Hours per week			Hours per week		
Cl Out			Cl Out		
023-1	Differential Calculus ....	4 6	023-2	Integral Calculus .....	3 6
032-1	Light .....	3 3	033-1	Heat .....	3 4
034-2	Physics Laboratory .....	2 2	034-3	Physics Laboratory .....	2 2
042-3	Machine Drawing .....	6 0	044-3	Mechanism .....	6 6
044-2	Mechanism .....	2 4	21-2	Applied Mechanics .....	3 6
21-2	Applied Mechanics .....	3 6	30-3	Applied Electricity II....	3 3
30-1	Applied Electricity I....	3 3	30-4	Applied Electricity Lab...	3 0
30-4	Applied Electricity Lab...	3 0			

### THIRD YEAR

FIRST SEMESTER			SECOND SEMESTER		
Hours per week			Hours per week		
Cl Out			Cl Out		
014-1	Economics .....	3 4	014-1	Economics .....	3 4
050-1	Engineering Conference ..	2 0	050-1	Engineering Conference ..	2 0
21-3	Strength of Materials....	3 6	21-3	Strength of Materials....	3 6
22-1	Graphical Analysis .....	6 3	22-2	Machine Design .....	6 3
23-1	Hydraulics .....	3 6	23-1	Heat Engineering .....	3 6
23-1	Heat Engineering .....	3 6	26-1	Engineering Laboratory ..	2 4
24-3	Power Plant Equipment..	2 4	22-5	Mechanisms of Machines.	3 3

### FOURTH YEAR

FIRST SEMESTER			SECOND SEMESTER		
Hours per week			Hours per week		
Cl Out			Cl Out		
050-2	Engineering Conference ..	2 0	050-2	Engineering Conference ..	2 0
052-1	Thesis .....	1 3	052-1	Thesis .....	1 6
16-1	Materials .....	2 4	24-4	Power Plant Engineering..	3 6
22-3	Machine Design .....	6 3	25-1	Industrial Plants .....	6 3
25-1	Industrial Plants .....	4 6	22-4	Machine Design .....	6 3
23-5	Heat Engineering .....	3 6	23-4	Steam Turbines .....	3 6
26-2	Engineering Laboratory ..	4 6	26-3	Engineering Laboratory ..	3 3

# NORTHEASTERN UNIVERSITY

## ELECTRICAL ENGINEERING

Probably none of the branches of scientific knowledge has been so markedly modified during the past decade as that relating to Electrical Engineering, nor has any other exerted such a profound influence upon the scientific thought of the period. A science, like a planet, grows in the main by a process of infinitesimal accretion. Its theory is built like a cathedral through additions by many builders of many different elements, and this is pre-eminentlly true of electricity. It is absolutely essential that the electrical engineer who hopes to make a success of his work should be able to grasp readily and absorb effectively the meaning and content of the many scientific memoirs recording the results of research bearing upon and directly influencing his chosen branch of engineering.

He must have a thorough appreciation of physical theory, a clear understanding of chemical principles, and a broad working knowledge of mathematics. It is essential that each student planning to take this curriculum should realize the fundamental necessity of obtaining a solid grounding in these three subjects upon which the success of his future work will definitely hinge.

It is not the purpose of the curriculum to attempt the impossible in aiming to turn out electrical engineers, fully trained in all branches of the science, especially as it is becoming daily more differentiated and specialized. The curriculum is designed rather to lay a broad and secure foundation for future progress along the lines of activity which may particularly appeal to each individual student and give him a good working knowledge of the essential principles which underlie each of the more specialized branches of professional work.

Parallel with the theoretical work runs a carefully planned course of laboratory instruction which is intended to develop the student's power of accurate observation, of planning work and methods of procedure for himself with due regard to saving of time and labor and precision of the results attained.

# SCHOOL OF ENGINEERING

## CURRICULUM III. ELECTRICAL ENGINEERING

### FIRST YEAR

FIRST SEMESTER			SECOND SEMESTER		
Hours per week			Hours per week		
Cl Out			Cl Out		
10-1	English	3 6	010-1	English	3 6
20-1	College Algebra	4 6	022-1	Analytic Geometry	4 6
21-1	Trigonometry	3 6	031-1	Physics	4 8
41-1	Mechanical Drawing	5 0	041-3	Mechanical Drawing	8 1
60-1	Physical Drawing	2 0	060-1	Physical Training	2 0
32-1	Elect. Eng. I	2 3	32-1	Elect. Eng. I	3 3
40-1	Inorganic Chemistry	4 4			
SUMMER TERM					
	012-1	History of Science	5	10	
	043-1	Descriptive Geometry	20	10	

### SECOND YEAR

FIRST SEMESTER			SECOND SEMESTER		
Hours per week			Hours per week		
Cl Out			Cl Out		
023-1	Differential Calculus	4 6	023-2	Integral Calculus	3 6
032-1	Light	3 3	033-1	Heat	3 4
034-2	Physics Laboratory	2 2	034-3	Physics Laboratory	2 2
042-5	Engineering Drawing	3 0	042-5	Engineering Drawing	3 0
21-1	Applied Mechanics	3 6	21-2	Applied Mechanics	3 6
32-3	Elect. Eng. II	5 6	32-3	Elect. Eng. II	4 6
32-4	Elect. Eng. II Lab	3 3	32-4	Elect. Eng. II Lab	5 3

### THIRD YEAR

FIRST SEMESTER			SECOND SEMESTER		
Hours per week			Hours per week		
Cl Out			Cl Out		
014-1	Economics	3 4	014-1	Economics	3 4
050-1	Engineering Conference	2 0	050-1	Engineering Conference	2 0
21-4	Strength of Materials	3 6	13-3	Hydraulics	2 4
32-6	Elect. Eng. III Lab	6 3	32-6	Elect. Eng. III Lab	6 3
23-7	Heat Engineering	3 6	23-7	Heat Engineering	3 6
32-7	Elect. Eng. III	3 6	32-7	Elect. Eng. III	3 4
33-1	Elect. Measurements	2 4	33-1	Elect. Measurements	2 3
			33-2	Elect. Measurements Lab	3 3

### FOURTH YEAR

FIRST SEMESTER			SECOND SEMESTER		
Hours per week			Hours per week		
Cl Out			Cl Out		
050-2	Engineering Conference	2 0	050 2	Engineering Conference	2 0
052-1	Thesis	1 3	052-1	Thesis	1 6
26-6	Engineering Laboratory	2 2	26-6	Engineering Laboratory	2 4
32-8	Elect. Eng. IV Lab	6 3	32-8	Elect. Eng. IV Lab	6 3
32-9	Elect. Eng. IV	5 8	32-9	Elect. Eng. IV	5 8
33-4	Advanced Standard Lab	3 3	*34-1	Elect. Eng. V Opt. A	2 4
*34-1	Elect. Eng. V Opt. A	2 4	*34-1	Elect. Eng. V Opt. B	2 4
*34-1	Elect. Eng. V Opt. B	2 4	35-1	Advanced Electricity	2 2
35-1	Advanced Electricity	2 3			

\*Seniors may elect either one, but not both.

# **NORTHEASTERN UNIVERSITY**

## **CHEMICAL ENGINEERING**

"The Chemical Engineer is a professional man experienced in the design, construction and operation of plants, in which materials undergo chemical and physical change."

It is only within the last decade that the chemical industrial enterprises have realized that the design, construction and operation of the chemical plants should be placed in the hands of men who are familiar with the chemical phases of the plant.

The purpose of this curriculum is to train students so that they might be prepared to fill the demand for men competent to build and operate manufacturing industries, based upon chemical principles at their maximum efficiency. The professional work of the curriculum falls naturally into three groups: First, courses which provide a knowledge of the fundamental principles of chemistry. Second, those courses which furnish a knowledge of mechanical and electrical engineering. Third, engineering practice in which the student becomes familiar with the many applications of theoretical principles.

The laboratory work has been planned not only to familiarize the student with many types of chemical compounds and apparatus, but also to train the student to be an exact and logical thinker, and to encourage a desire for the application of his knowledge and training to the investigation and solution of the many problems which modern industry presents.



# **NORTHEASTERN UNIVERSITY**

## **ADMINISTRATIVE ENGINEERING**

Engineering and industry have developed simultaneously, thus the engineer who understands the underlying principles of business is in great demand. Moreover, the successful engineering firm must have business experts on its staff. Engineering severed from the industrial and economic world is an utter impossibility. This dual development of engineering and business has given rise to a distinct branch of engineering which requires men who understand the technique of engineering and at the same time have the vision and liberality of progressive business men.

Many men fill high executive positions and administrative offices without having had technical training, but they have acquired by experience and by private study the scientific knowledge required in their positions. Training in both business and engineering is a double asset to a young man. Some young engineers have neither the aptitude nor the special ability for a strictly scientific career; and some are ambitious to take up administrative work. The number of high technical positions, though large in the aggregate, is relatively small in comparison with the number of graduates. The majority of them must face the alternative either of filling routine positions or qualifying themselves definitely for administrative positions. Engineering students fitted to make the most of their opportunities should not only be trained as scientists, but should also have first-hand knowledge of the problems of production, exchange, finance, government, labor and business principles.

The object of this curriculum is to prepare for executive and managerial positions for which a knowledge of engineering principles and methods is pre-requisite. Administrative engineering is not intended for those who expect to become professional engineers in the field of design and construction, nor for those who expect to fill executive positions in which a knowledge of engineering equivalent to that ordinarily gained in any one of the other engineering courses is pre-requisite.

# SCHOOL OF ENGINEERING

## CURRICULUM V. ADMINISTRATIVE ENGINEERING

### FIRST YEAR

FIRST SEMESTER		Hours per week	SECOND SEMESTER		Hours per week
		Cl Out			Cl Out
010-1	English	3 6	010-1	English	3 6
020-1	College Algebra	4 6	022-1	Analytic Geometry	4 6
021-1	Trigonometry	3 6	031-1	Physics	4 8
041-1	Mechanical Drawing	5 0	041-2	Mechanical Drawing	4 0
060-1	Physical Training	2 0	060-1	Physical Training	2 0
55-2	Insurance	3 6	40-1	Inorganic Chemistry	4 4
55-1	American Economic Hist.	2 4	55-1	American Economic Hist.	2 4

### SUMMER TERM

012-1	History of Science	5 10
11-7	Surveying	20 10

### SECOND YEAR

FIRST SEMESTER		Hours per week	SECOND SEMESTER		Hours per week
		Cl Out			Cl Out
025-1	Differential Calculus	4 6	023-2	Integral Calculus	4 6
052-1	Light	3 3	033-1	Heat	3 4
034-2	Physics Laboratory	2 2	034-1	Physics Laboratory	2 2
042-6	Engineering Drawing	3 0	042-6	Engineering Drawing	3 0
21-1	Applied Mechanics	3 6	21-2	Applied Mechanics	3 6
30-1	Applied Electricity I	3 3	30-3	Applied Electricity II	3 3
011-1	Economics	3 4	014-1	Economics	3 4
54-2	Economic Geography	2 4	54-7	Foreign Trade	2 4

### THIRD YEAR

FIRST SEMESTER		Hours per week	SECOND SEMESTER		Hours per week
		Cl Out			Cl Out
050-1	Engineering Conference	2 0	050-1	Engineering Conference	2 0
21-4	Strength of Materials	3 6	16-2	Testing Materials Lab.	2 2
13-1	Hydraulics	3 6	23-3	Heat Engineering	3 6
21-3	Power Plant Equipment	2 4	52-2	Money and Banking	3 6
50-1	Industrial Organization	2 4	50-2	Industrial Finance	2 4
51-3	Elements of Accounting	4 6	54-8	Transportation	3 6
54-3	Marketing	3 6	54-9	Salesmanship	3 6

### FOURTH YEAR

FIRST SEMESTER		Hours per week	SECOND SEMESTER		Hours per week
		Cl Out			Cl Out
050-2	Engineering Conference	2 0	050-2	Engineering Conference	2 0
052-1	Thesis	1 3	052-1	Thesis	1 6
16-1	Materials	2 4	24-6	Standard Engineering	2 4
50-6	Business Administration	3 6		Products and Processes	2 4
51-5	Labor Problems	3 6	50-6	Business Administration	3 6
53-3	Business Law	3 6	51-6	Industrial Problems	2 4
51-8	Psychology	3 6	53-3	Business Law	3 6
			51-7	Personnel Administration	3 6

### \*CURRICULUM FOR THE FULL-TIME PLAN

SOPHOMORE YEAR		Hours per week		**JUNIOR YEAR		Hours per week	
		Cl	Out			Cl	Out
010-2	Literature I	3	6	010-5	Public Speaking I	3	6
012-2	History I	3	6	014-2	Sociology I	3	6
013-1	Government I	3	6	014-5	Ethics I	3	6
014-4	Psychology I	3	6	014-8	Modern Social Prob. I	3	6
50-11	Business Principles I	3	6	50-8	Business Admin. I	3	6
52-2	Money and Bank I	3	6	53-2	Business Law I	3	6

SOPHOMORE YEAR		Hours per week		**JUNIOR YEAR		Hours per week	
		Cl	Out			Cl	Out
010-3	Literature II .....	3	6	010-6	Public Speaking II ....	3	6
012-3	History II .....	3	6	014-3	Sociology II .....	3	6
013-1a	Government II .....	3	6	014-5a	Ethics II .....	3	6
014-4a	Psychology II .....	3	6	014-8a	Mod. Social Prob. II ...	3	6
50-11a	Business Prin. II .....	3	6	50-9	Business Admin. II .....	3	6
52-2a	Money and Bank. II .....	3	6	53-2a	Business Law II .....	3	6

SOPHOMORE YEAR		Hours per week		**JUNIOR YEAR		Hours per week	
		Cl	Out			Cl	Out
010-4	Literature III	3	6	010-7	Public Speaking III	3	6
012-3a	History III	3	6	014-3a	Sociology III	3	6
013-1b	Government III	3	6	014-5b	Ethics III	3	6
014-4b	Psychology III	3	6	014-8b	Mod. Social Probs. III	3	6
50-11b	Business Prin. III	3	6	50-9a	Business Admin. III	3	6
52-2b	Money and Bank. III	3	6	53-2b	Business Law III	3	6

88



## **SCHOOL OF ENGINEERING**

### **SUBJECTS OF INSTRUCTION**

Instruction is given through lectures and recitations, by practical exercises in the field, in the laboratories, and in the drawing rooms. These exercises are of great educational value, therefore form the foundation of each of the five curriculums. In many branches the instruction given differs widely from available texts in which cases notes on the lectures and laboratory work are usually issued to the students. Besides oral examinations in connection with the ordinary exercises, written examinations are held from time to time.

In the following pages will be found a more or less detailed statement of the scope of the subjects offered in the various curriculums. The subjects are classified, as far as possible, related studies being arranged in sequence. The subjects are numbered for convenience in consulting the various curriculums. A complete table of the Subjects of Instruction will be found at the end of the catalog. Under each subject is given a list of the courses required as prerequisite for that subject. These requirements are vital to a clear comprehension of the advanced work. In some cases, the required preparation may be taken simultaneously but must be completed before further advanced work is undertaken.

Students electing a subject must complete that subject in order to be considered as a candidate for a degree.

By careful consideration of the curriculums, in connection with the following Synopses of Courses, the applicant for a special curriculum may select, for the earlier part of that curriculum, such subjects as will enable him to pursue later those more advanced subjects which he may particularly desire. Applications for exception from the required preparation as stated in connection with each subject described below, will be passed on by the Faculty.

The topics included in the list which follows are subject to change at any time by action of the School authorities.

# NORTHEASTERN UNIVERSITY

## SYNOPSIS OF COURSES

In the following synopses under each course, "Curriculum" refers to the five principal curriculums of Civil I, Mechanical II, Electrical III, Chemical IV and Administrative V. "*Full-time*" following the word curriculum indicates that the course is open only to students admitted to the full-time plan. The courses themselves are arranged in groups according to the departments in which the course is given.

The "year" refers to the time when the subject is ordinarily taken under the regular schedule, "both semesters" referring to both the First and Second Semesters, and "Summer Term" referring to the four-week term starting in June or in August.

"Prerequisite indicates courses which must have been passed prior to the taking of the advanced courses.

"Preparation" gives the courses by number which the student must have taken previously to the advanced courses, unless stated exceptions are made, in which case both courses may be carried simultaneously.

Under the number of "hours per week," "CI" refers to the hours of class room or laboratory work and "Out" to the hours of outside preparation. The main body of the synopsis shows in brief form the ground covered by the course. At the end of the synopsis is given the names of the instructors for that particular subject, the first named being in charge.

# SCHOOL OF ENGINEERING

## \*GENERAL DEPARTMENTS

### ENGLISH

#### 010-1 ENGLISH

*All curriculums  
First year, both semesters*

*Preparation: ———  
Three hours per week*

English Composition is especially adapted to the needs of men who expect to follow the engineering profession. The work consists of lectures, recitations, class discussions, weekly themes, tests, reports, and a limited amount of outside reading, particularly in modern scientific journals. The material for the themes is largely drawn from, or related to, the student's study.

PROFESSOR MELVIN, MESSRS. ESTES AND HOLMES

#### 010-2 LITERATURE I

*Curriculum: Full-time  
Second year, first term*

*Preparation: 010-1  
Three hours per week*

This course will consist of a survey of American literature from the colonial days to 1870. The aim will be to develop an appreciation for the greatest of our early writers and an understanding of the conditions under which they wrote.

PROFESSOR MELVIN.

#### 010-3 LITERATURE II

*Curriculum: Full-time  
Second year, second term*

*Preparation: 010-1  
Three hours per week*

Modern American authors from 1870 to 1920 will be considered during this period. Especial attention will be given to such writers as Mark Twain, Bret Harte, John Burroughs, O. Henry, Hamlin Garland, Edith Wharton, George Cable, Robert Frost, William Dean Howells, Henry James, and Edwin Arlington Robinson.

PROFESSOR MELVIN.

#### 010-4 LITERATURE III

*Curriculum: Full-time  
Second year, third term*

*Preparation: 010-1  
Three hours per week*

The study of several outstanding European authors of the past eighty years will be the substance of this course. English and continental novelists and dramatists will receive particular attention.

PROFESSOR MELVIN.

\*Preparation courses marked with asterisk and the advanced course may be carried simultaneously.

## NORTHEASTERN UNIVERSITY

### **\*\*010-5 PUBLIC SPEAKING I**

*Curriculum: Full-time  
Third year, first term*

*Preparation: 010-1  
Three hours per week*

This course will offer practical training in the preparation and presentation of the various types of speeches. The instruction will be planned to eliminate defects of voice, posture, etc., and to develop in the student an ability to speak easily, naturally and forcefully.

PROFESSOR MELVIN.

### **\*\*010-6 PUBLIC SPEAKING II**

*Curriculum: Full-time  
Third year, second term*

*Preparation: 010-1  
Three hours per week*

A continuation of 010-5 Public Speaking I.

PROFESSOR MELVIN.

### **\*\*010-7 PUBLIC SPEAKING III**

*Curriculum: Full-time  
Third year, third term*

*Preparation: 010-1  
Three hours per week*

A continuation of 010-6 Public Speaking II.

PROFESSOR MELVIN.

## GERMAN

### **011-1 GERMAN**

*Curriculum: IV  
Second year, second semester*

*Preparation: —  
Two hours per week*

All students in the Chemical Engineering Curriculum are required to show before graduation a sufficient knowledge of the German language to be able to read technical books and scientific articles written in the German language. For students who have not obtained this knowledge before entering college, this course will offer a study of grammatical forms, syntax, and vocabulary through composition exercises and rapid reading. The entire purpose is to give the student a knowledge of German grammar with a working vocabulary of scientific terms.

MR. STRAUSS.

### **011-2 GERMAN**

*Curriculum: IV  
Third year, first semester*

*Preparation: 011-1  
Two hours per week*

A continuation of German 011-1.

MR. STRAUSS.

**\*\*Not given 1926-1927.**

# SCHOOL OF ENGINEERING

## SOCIAL SCIENCE

### 012-1 HISTORY OF SCIENCE

*Curriculums: I, II, III, V*

*First year, summer term*

*Preparation: —*

*Five hours per week*

The aim is to give broad view of the growth of science, extend the range of the student's interests, and encourage discriminating scientific reading.

PROFESSOR MELVIN.

### 012-2 MODERN HISTORY I

*Curriculum: Full-time*

*Second year, first term*

*Preparation: —*

*Three hours per week*

The course is a brief survey of European and American movements, political, social, and industrial since 1800. The aim of the course is to provide a background for the understanding of current historical movements.

PROFESSOR SCHLAGENHAUF.

### 012-3 MODERN HISTORY II

*Curriculum: Full-time*

*Second year, second term*

*Preparation: —*

*Three hours per week*

Continuation of 012-2 Modern History I.—(See above.)

### 012-3a MODERN HISTORY III

*Curriculum: Full-time*

*Second year, third term*

*Preparation: —*

*Three hours per week*

This course is a continuation of Modern History II. (See above.)

### 013-1 GOVERNMENT I

*Curriculum: Full-time*

*Second year, first term*

*Preparation: —*

*Three hours per week*

This course consists of the theory and practice of government in the existing forms of national organization in the United States and Great Britain. The relations between the executive, the legislature, and the judiciary will form the basis of investigation. In the lectures additional illustrative material will be taken from France, Switzerland, and Canada. It is hoped that the men will look on the study of government, not as academic but as practical, through constant reference to contemporary men and affairs.

PROFESSOR MELVIN.

## NORTHEASTERN UNIVERSITY

### 013-1a GOVERNMENT II

*Curriculum: Full-time*  
*Second year, second term*

*Preparation: —*  
*Three hours per week*

Continuation of Government I. (See above.)

### 013-1b GOVERNMENT III

*Curriculum: Full-time*  
*Second year, third term*

*Preparation: —*  
*Three hours per week*

Continuation of Government II. (See above.)

### 014-1 PRINCIPLES OF ECONOMICS I

*Curriculums: All*  
*\*Third year, first semester*

*Preparation: —*  
*Three hours per week*

This course consists of a rapid survey of the elementary principles of economics, such as those of wealth, labor, capital value, price, and so forth. Particular attention is paid to the consideration of money, the mechanism of exchange, banking, and its relation to the finances of corporations. In studying the distribution of wealth, considerable attention is paid to the questions of wages and value, and their relation to business profits.

PROFESSOR SCHLAGENHAUF.

### 014-1a PRINCIPLES OF ECONOMICS II

*Curriculums: All*  
*\*Third year, second semester*

*Preparation: 014-1*  
*Three hours per week*

Continuation of Economics I. (See above.)

### \*\*014-2 SOCIOLOGY I

*Curriculum: Full-time*  
*Third year, first term*

*Preparation: —*  
*Three hours per week*

This course is designed to give a rapid survey of the content of social laws, social evolution, and social progress. Physical, psychical, economic, and political factors in social progress. Lectures and assigned outside readings.

PROFESSOR SCHLAGENHAUF.

### \*\*014-3 SOCIOLOGY II

*Curriculum: Full-time*  
*Third year, second term*

*Preparation: —*  
*Three hours per week*

The course will deal with social institutions, charities, public health, immigration, labor problems, etc.

\*Sophomore year for Curriculum V.

\*\*Not offered 1926-1927.

## SCHOOL OF ENGINEERING

### **\*014-3a SOCIOLOGY III**

*Curriculum: Full-time  
Third year, third term*

*Preparation: —  
Three hours per week*

Continuation of Sociology II. (See above.)

### **014-4 PSYCHOLOGY I**

*Curriculum: Full-time  
Second year, first term*

*Preparation: —  
Three hours per week*

This course is intended to give a brief systematic survey of the principles of psychology and their application. A brief description of the nervous system, followed by an account of the instincts, emotions, and thought processes, will constitute the material for study.

MR. ESTES.

### **014-4a PSYCHOLOGY II**

*Curriculum: Full-time  
Second year, second term*

*Preparation: —  
Three hours per week*

Continuation of Psychology I. (See above.)

### **014-4b PSYCHOLOGY III**

*Curriculum: Full-time  
Second year, third term*

*Preparation: —  
Three hours per week*

Continuation of Psychology II. (See above.)

### **\*014-5 OUTLINE OF ETHICS I**

*Curriculum: Full-time  
Third year, third term*

*Preparation: —  
Three hours per week*

The material of this course will include an examination of the major views of life in their relation to the principles of conduct. A selected group of current ethical problems will also be considered.

MR. ESTES.

### **\*014-5a OUTLINE OF ETHICS II**

*Curriculum: Full-time  
Third year, second term*

*Preparation: —  
Three hours per week*

Continuation of Ethics I. (See above.)

### **\*014-5b OUTLINE OF ETHICS III**

*Curriculum: Full-time  
Third year, third term*

*Preparation: —  
Three hours per week*

Continuation of Ethics II. (See above.)

## NORTHEASTERN UNIVERSITY

### **\*\*014-8 MODERN SOCIAL PROBLEMS I**

*Curriculum: Full-time*

*Preparation: —*

*Third year, first term*

*Three hours per week*

A limited number of contemporary social problems will be studied in the light of recent biological and psychological knowledge. Among these will be included the problems of population increase, family life, and crime.

MR. ESTES.

### **\*\*014-8a MODERN SOCIAL PROBLEMS II**

*Curriculum: Full-time*

*Preparation: —*

*Third year, second term*

*Three hours per week*

Continuation of Modern Social Problems I. (See above.)

### **\*\*014-8b MODERN SOCIAL PROBLEMS III**

*Curriculum: Full-time*

*Preparation: —*

*Third year, third term*

*Three hours per week*

Continuation of Modern Social Problems II. (See above.)

\*\*Not offered 1926-1927.





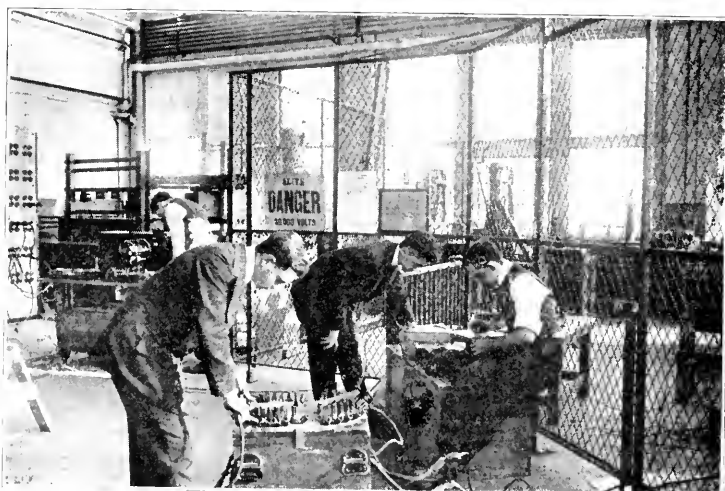
Corner of Electrical Experiment Laboratory



Corner of Electrical Measurements Laboratory



Radio Manufacture and Assembly  
General Radio Company



Making a High Tension Test  
Edison Electric Illuminating Co.

# SCHOOL OF ENGINEERING

## \*MATHEMATICS

### 020-1 COLLEGE ALGEBRA

*Curriculums: All*

*First year, first semester*

*Preparation: —*

*Four hours per week*

The study of algebra is scheduled to begin with the solution of the quadratic equation. However, a rapid although thorough review of the simpler operations of algebra precedes this. This solution of the quadratic and simultaneous quadratics is followed by a study of the theory of exponents, series determinants, and principles of the theory of equations. Time permitting, the course includes graphs, permutations and combinations, and principles of vector analysis.

PROFESSORS SPEAR AND COOLIDGE.

MESSRS. BOND, PARSONS AND WHITTAKER.

### 021-1 TRIGONOMETRY

*Curriculums: All*

*First year, first semester*

*\*Preparation: 020-1*

*Three hours per week*

This course consists of the study of trigonometric function as ratios; transformation and solution of trigonometric equations; inverse functions; circular function; goniometry; logarithms; solution of exponential equations; solution of right and oblique triangles; law of sines, cosines, and tangents; areas. Considerable practice in calculations of practical problems enables the student to apply his trigonometry to problems arising in engineering practice at an early stage. Explanation of laws of spherical trigonometry is also taken up.

PROFESSORS SPEAR AND COOLIDGE.

MESSRS. BOND, PARSONS, ALCOTT AND WHITTAKER.

### 022-1 ANALYTIC GEOMETRY

*Curriculums: All*

*First year, second semester*

*Preparation: 021-1*

*Four hours per week*

The course consists of the study of cartesian and polar coordinates; the equations of straight lines and simpler curves derived from the geometric properties of the curves; properties of curves derived from their equations; thorough study of straight line, circle, and conic sections; intersection of curves,

\*Preparation courses marked with asterisk and the advanced course may be carried simultaneously.

## NORTHEASTERN UNIVERSITY

transformation of axes; plotting of polynomials, including exponential, trigonometric, and logarithmic functions; loci problems. An endeavor is made to develop the analytical sense in the student throughout the course, rather than to rely on the use of formulae.

PROFESSOR SPEAR.

MESSRS. BOND AND PARSONS.

### 023-1 DIFFERENTIAL CALCULUS

*Curriculum:* All

*Pre-requisite* 020-1; 022-1

*Second year, first semester*

*Four hours per week*

In this course are taken up the theory of limits; rates of change; differentiation of algebraic, trigonometric, exponential and logarithmic functions; slopes of curves; maxima and minima, with practical problems; partial differentiation; derivatives of higher order; length of curves; radius of curvature, etc. expansion of functions, series.

Although the subject matter deals with considerable theoretical constant sight is kept of the practical application of all the theory. The geometric interpretation of every new subject carefully defined, and problems are continually solved dealing in practical applications of theory. Velocity and acceleration problems in mechanics are typical of those used for applications of differentiation.

PROFESSOR SPEAR AND MR. ALCOTT.

### 023-2 INTEGRAL CALCULUS

*Curriculum:* All

*Preparation:* 023-1

*Second year, second semester*

*Three hours per week*

This course is a continuation of Calculus 023-1, and deals with integration as the inverse of differentiation; integration as a summation; definite integrals; use of tables; double and triple integrals; areas in rectangular and polar co-ordinates; volumes; center of gravity; moment of inertia; practical problems depending on the differential and integral calculus for solution; solution of simpler differential equations.

PROFESSOR SPEAR AND MR. ALCOTT.

# SCHOOL OF ENGINEERING

## \*PHYSICS

### 31-1 PHYSICS

*Curriculums: All* *Preparation: 020-1, 030-1, 021-1*  
*First year, second semester* *Four hours per week*

The course is a study in the fundamental principles of elementary mechanics. The subjects studied are: equilibrium of bodies acted upon by parallel forces, equilibrium of bodies acted upon by concurrent forces, vectors, relative velocities, uniform velocity, uniformly accelerated motion, simple harmonic motion, motion on an inclined plane, energy, work, horse-power, angular velocity and acceleration, moment of inertia, centrifugal force, fluid pressure, density and specific gravity of solids and liquids, Boyles law, and hydrometers. It is the purpose of the course to lay a thorough foundation for subsequent study of experimental and technical physics. Hence it is planned to familiarize the pupil with the fundamental principles of the science.

PROFESSOR COOLIDGE AND MR. HATCH.

### 32-1 LIGHT

*Curriculums: All* *Preparation: 020-1, 030-1, 021-1*  
*Second year, first semester* *Three hours per week*

The course consists of the study of light, including wave motion, velocity of light, mirrors, refraction, lenses, optical instruments, dispersion, interference, diffraction, and polarization of light.

PROFESSOR COOLIDGE AND MR. WHITTAKER.

### 33-1 HEAT

*Curriculums: All* *Preparation: 030-1*  
*Second year, second semester* *Three hours per week*

The topics studied are: thermometry, expansion of solids, liquids, and gases, calorimetry, change of state including latent heat of fusion and vaporization (sublimation), triple point diagram, conduction and radiation, and the mechanical equivalent of heat.

PROFESSOR COOLIDGE AND MR. WHITTAKER.

### 34-2 PHYSICS LABORATORY

*Curriculums: All* *Preparation: 031-1, 021-1, 032-1*  
*Second year, first semester* *Two hours per week*

This course consists of experiments on mechanics and light performed by each student supplementing the lecture and class

\*Preparation courses marked with asterisk and the advanced course may be carried simultaneously.

## NORTHEASTERN UNIVERSITY

room work of Physics 031-1 and 032-1. The experiments on mechanics include the use of the vernier, micrometers, and spherometers, calculation of true weights, determination of the specific gravities of solids by various methods and areas by planimeter. The experiments on light include the determination of the index of refraction of a lense, the position of images in combination of lenses and the uses of the spectroscope.

PROFESSOR COOLIDGE AND MR. HATCH.

### 034-3 PHYSICS LABORATORY

*Curriculum: All*

*Preparation: \*033-1, 034-2, 031-1,  
021-1*

*Second year, second semester Two hours per week*

This course is a series of experiments on mechanics and heat to supplement the work done in 031-1 and 033-1. Among the experiments of mechanics are: the modulus of elasticity, the determination of the value of "G", the Nicholson hydrometer, and the determination of the specific gravity of a liquid. The experiments on heat include the use of the air thermometer, the maximum and minimum thermometers and the high temperature calorimeter; and the determination of the temperature of a mixture and the mechanical equivalent of heat.

PROFESSORS COOLIDGE AND STEARNS AND ASSISTANTS.

# SCHOOL OF ENGINEERING

## \*DRAWING

### 01-1 MECHANICAL DRAWING

*Curriculums: All*

*Preparation: —*

*First year, first semester*

*Five hours per week*

This is an elementary course embracing a thorough consideration of lettering, straight line and compass exercises, geometrical constructions, orthographic projection and development.

PROFESSORS TOZER, ASHLEY AND GEE.

MESSRS. COPLEY, HATCH AND ANDERSON.

### 01-2 MECHANICAL DRAWING

*Curriculums: I, IV, V*

*Preparation: 041-1*

*First year, second semester*

*Four hours per week*

This course is a continuation of Mechanical Drawing 041-1, comprising problems in intersections, isometric, cabinet, and oblique, drawing and mechanical perspective.

PROFESSORS TOZER, ASHLEY AND GEE.

MESSRS. COPLEY, HATCH AND ANDERSON.

### 01-3 MECHANICAL DRAWING

*Curriculums: II, III*

*Preparation: 041-1*

*First year, second semester*

*Eight hours per week*

This course is a continuation of Mechanical Drawing 041-1, comprising problems in mechanical perspective, isometric, cabinet, and oblique drawing, tracing, and elementary machine drawing.

PROFESSORS TOZER, ASHLEY AND GEE.

MESSRS. COPLEY, HATCH AND ANDERSON.

### 02-3 MACHINE DRAWING

*Curriculum: II*

*Preparation: 041-3*

*Second year, first semester*

*Six hours per week*

The course consists of reading and translating drawings. Detailed and assembly drawings of machine parts and simple machines are made from freehand sketches and other data, but nothing in the nature of a copy is permitted. The course is designed to give a thorough foundation for the study of machine design.

PROFESSOR TOZER.

PROFESSORS ASHLEY AND GEE.

\*Preparation courses marked with asterisk and the advanced course may be carried simultaneously.

## NORTHEASTERN UNIVERSITY

### 042-5 ENGINEERING DRAWING

*Curriculum: III*

*Second year, both semesters*

*Preparation: 041-3*

*Three hours per week*

This course comprises problems in elementary machine drawing, freehand machine sketching and problems, and classroom discussions on simple mechanism of machines.

### 042-6 ENGINEERING DRAWING

*Curriculum: IV, V*

*Second year, both semesters*

*Preparation: 041-2*

*Three hours per week*

This course consists of problems in developments and intersections of solids, isometric drawing, and other pictorial representations.

PROFESSOR GEE.

### 043-1 DESCRIPTIVE GEOMETRY

*Curriculums: I, II, III*

*First year, summer terms*

*Preparation: 041-1*

*Twenty hours per week*

The course includes a study of the principles of descriptive geometry and their application to engineering by the solution of many problems in which theory and practice are closely correlated. Class-room exercises are devoted to drafting board problems, preparation for which is obtained by the outside study of text-book references and practical problems.

PROFESSORS TOZER, ASHLEY AND GEE.

MR. ALCOTT.

### 044-2 MECHANISM

*Curriculum: II*

*Second year, first semester*

*Preparation: 041-3*

*Two hours per week*

This is an introductory course conducted mainly by graphic methods and dealing with gear trains, and velocity ratios.

PROFESSOR ASHLEY.

### 044-3 MECHANISM

*Curriculum: II*

*Second year, second semester*

*Preparation: 044-2*

*Six hours per week*

This course is a continuation of Mechanism 044-2, embracing a careful study of paths of mechanical movements and the application to velocity diagrams, quick-return mechanisms, and cams. The theory of gear tooth outlines is also investigated by graphical methods.

PROFESSOR ASHLEY.



# SCHOOL OF ENGINEERING

## \*GENERAL ENGINEERING

### 50-1 ENGINEERING CONFERENCE

<i>Curriculum:</i> All	<i>Preparation:</i> —
<i>Third and fourth years, both semesters</i>	<i>Two hours per week</i>

This course is the connecting link between the industry and the class-room. The third and fourth year men of each curriculum meet together in small groups. It is conducted as an engineering society and is presided over by student officers under the direction of a member of the faculty. Each student, in turn, delivers a twenty to thirty minute talk on some topic of engineering experience or general interest. Other students are designated to supplement the information given by the principal speaker with short discussions and the meeting is then thrown open to a general discussion by the whole class as long as seems best to the instructor. Thus it is possible for all students in the class to become familiar also with the practical experience being acquired by their class-mates and so become acquainted with a larger number of practical problems and a broader field of experience.

Intermingled with these regular classes special programs are arranged to permit prominent engineers and business men to address the students on current engineering and industrial problems and projects.

PROFESSORS ALVORD, NIGHTINGALE, SCHLAGENHAUF, SMITH, STRAHAN AND ZELLER. MESSRS. TOWLE AND CARLSON.

### 50-2 CONTINUATION OF 050-1

#### 52-1 THESIS

<i>Curriculum:</i> All	<i>Preparation:</i> Technical subjects
<i>Fourth year, both semesters</i>	<i>One hour per week</i>

Each student who is a candidate for graduation must, during his senior year, prepare and present a thesis, the satisfactory completion of which is a pre-requisite for receiving a degree from the School of Engineering. By "thesis" is meant an essay involving the statement, analysis, and solution of some problem in pure or applied science. Its purpose is to demonstrate a satisfactory degree of initiative and a power of original thought

## NORTHEASTERN UNIVERSITY

and work on the part of each candidate for an engineering degree.

The subject of the thesis is to be decided in conference between the candidate and that faculty member of the professional department to whom he is assigned for supervision of thesis work, final approval, however, resting with the head of the department. This subject may be one of structural design, research, testing, study of a commercial process, etc., but in any case would a mere resumé or prior knowledge and a discussion of the present state of the matter be acceptable. This, it is true, must normally be made, but in addition thereto there must be a certain amount of work planned and executed, aimed towards the extension of the present field of information regarding the subject chosen.

In many cases the student presents an individual thesis. However, in nearly equal number, acceptable subjects will be found necessitating the co-operation of at least two men, either of the same or sometimes of different professional departments. In such cases, each man is primarily responsible for a certain part of the work, while also making himself wholly familiar with the entire problem; and the completed thesis must show clear evidence of the evenly-balanced co-operation and labors of the men concerned.

The completed thesis will be examined for acceptance or rejection from the technical viewpoint by the professional departments interested, and then forwarded to the Dean's office for the final approval of the thesis resting with the Dean.

Upon acceptance, the thesis becomes the property of the School of Engineering, together with all apparatus and materials used in connection therewith, except that hired or borrowed, which was already the personal property of the candidate. It is not to be printed, published, nor in any other way made public except in such manner as the professional department and the Dean shall jointly approve.

For all further information, the candidate for the degree is referred to the "Directions for Theses," which he must obtain from his professional department at the beginning of his senior year.

The arrangement of hours shown in the curriculums may be varied to suit the requirements of each department.

# SCHOOL OF ENGINEERING

## PHYSICAL EDUCATION

### 50-1—PHYSICAL TRAINING

*Curriculums: All*

*Preparation: —*

*First year, both semesters*

*Two hours per week*

All first-year students are required to take Physical Training. Health, strength, and vitality do not come by chance, but by obedience to natural laws. It is very essential for the student to acquire good habits of life. The work in the gymnasium is of the body building type, with plenty of competition. Regular classes in calisthenics are held under able physical instructors.

Students who are members of the varsity squad in any of the major sports may be excused from Physical Training upon petition to the Faculty, providing the petition is supported by the certification of the athletic coach and physical director. Upon petition of a student to be excused from Physical Training, owing to physical disability, favorable action will be taken by the Faculty only when said petition is accompanied by a physician's certificate, verifying the disability.

MESSRS. SINNETT AND HULTGREN.

# NORTHEASTERN UNIVERSITY

## \*DEPARTMENT OF CIVIL ENGINEERING

**NOTE—*Pre-requisite Courses:*** The following table sets forth the pre-requisite courses in the Department. These must have been completed before advanced courses may be taken. The advanced courses are listed below by years, followed by the pre-requisite courses.

### SECOND YEAR

<i>Advanced Courses</i>	<i>Pre-requisite Courses</i>
023-1 Different Calculus	020-1 College Algebra and/or
21-1 Applied Mechanics	022-1 Analytical Geometry
11-5 Surveying	031-1 Physics
	11-1 Surveying
	11-2 Surveying
12-1 Railroad Surveying	11-5 Surveying

### THIRD YEAR

12-3 Railroad Engineering	12-1 Railroad Surveying
21-3 Strength of Materials	21-1 Applied Mechanics
14-1 Theory of Structures	21-3 Strength of Materials

### FOURTH YEAR

15-1 Concrete	21-3 Strength of Materials
14-3 Engineering Structures	14-1 Theory of Structures
14-7 Structural Design	14-6 Structural Drawing

#### 11-1—SURVEYING

*Curriculum: I*  
*First year, first semester*

*Preparation: —*  
*Two hours per week*

The course consists of lectures, recitations, and problem work in which the following subjects are considered: the chain, tape, compass, transit, and level, methods of making and computing both closed and random traverses, location of buildings and points.

PROFESSOR INGALLS.

#### 11-2 SURVEYING

*Curriculum: I*  
*First year, second semester*

*Preparation: 11-1*  
*Two hours per week*

This course comprises surveying for deeds, city surveying, U. S. system of public land surveying, differential and profile leveling, theory and use of contour maps, stadia methods and various special problems.

PROFESSOR INGALLS.

#### 11-3 SURVEYING, FIELD-WORK AND PLOTTING

*Curriculum: I*  
*First year, first semester*

*\*Preparation: 11-1*  
*Five hours per week*

Two afternoons per week are devoted to preliminary practice

\*Preparation courses marked with asterisk and the advanced course may be carried simultaneously.

## SCHOOL OF ENGINEERING

with the standard surveying instruments. The work depends upon and is closely allied to the theoretical work in Surveying 11-1. The student first practises taping and chaining, then learns to use the compass for reading magnetic bearings. Then there follows practice with the transit level, and tape, concluding with a large transit and tape closed traverse. This traverse is balanced, plotted, and completed as a map. This includes the location and plotting of streets, buildings, etc., included within the traverse. Work is done on contour maps, with problems; differential and profile leveling; stadia methods; and various special problems such as layout of line and grade for a sewer or a building.

PROFESSOR INGALLS, MR. BAIRD AND ASSISTANTS.

### 11-4 SURVEYING, FIELD-WORK AND PLOTTING

*Curriculum: I*

*\*Preparation: 11-2, 11-3*

*First year, second semester*

*Five hours per week*

A continuation of Surveying 11-3.

PROFESSOR INGALLS, MR. BAIRD AND ASSISTANTS.

### 11-5 SURVEYING

*Curriculum: I*

*Pre-requisite: 11-1, 11-2*

*Second year, first semester*

*Two hours per week*

The student is taught the theory of plane and geodetic triangulation, the theory of the sextant, the theory of plane table topographical surveying, the adjustments of instruments, and the methods of stellar observation for the determination of azimuth. Surveying problems in review of the elementary work are assigned to make sure that the student has a comprehensive and accurate knowledge of the art.

PROFESSOR INGALLS.

### 11-6 SURVEYING, FIELD-WORK AND PLOTTING

*Curriculum: I*

*\*Preparation: 11-5*

*Second year, first semester*

*Five hours per week*

The work follows closely and is dependent upon the theoretical work of Surveying 11-5. Actual practice is given in triangulation, work with the sextant, plane table, field adjustment of instruments and in making an observation on polaris for latitude and azimuth.

PROFESSOR INGALLS AND MR. BAIRD.

## NORTHEASTERN UNIVERSITY

### 12-1 RAILROAD SURVEYING

*Curriculum: I*

*Second year, second semester*

*Pre-requisite: 11-5*

*Three hours per week*

The course covers the principles and application of simple compound, reversed, parabolic, and transition curves to railroad and highway location, also the principles of reconnaissance, preliminary and location survey for a railroad.

PROFESSOR INGALLS.

### 12-2 RAILROAD SURVEYING, FIELD-WORK AND PLOTTING

*Curriculum: I*

*Second year, second semester*

*\*Preparation: 12-1*

*Five hours per week*

The work follows closely the theory of Railroad Surveying 12-1. It includes the layout in the field of various railroad curves; the reconnaissance, preliminary and location survey of a line of railroad. Drafting room problems on location of railroads and highways are given.

PROFESSOR INGALLS AND ASSISTANTS.

### 12-3 RAILROAD ENGINEERING

*Curriculum: I*

*Third year, first semester*

*Pre-requisite: 12-1*

*Two hours per week*

The work is a continuation of Railroad Surveying 12-1. Methods of computing excavation and embankment, including the use of tables, are studied in detail. Further study is devoted to the effect of haul, and the use of the mass diagram in the determination of the final location. The economics of railroad location are considered.

PROFESSOR INGALLS.

### 12-4 RAILROAD ENGINEERING, FIELD-WORK AND PLOTTING

*Curriculum: I*

*Third year, first semester*

*\*Preparation: 12-3*

*Five hours per week*

This course consists of field work in connection with Railroad Engineering 12-3. The final location and profile of the railroad line is plotted. A mass diagram is drawn for the earthwork and a final computation of cost is made. The line is cross-sectioned and slope-staked.

PROFESSOR INGALLS, MR. BAIRD AND ASSISTANTS.

## SCHOOL OF ENGINEERING

### 13-1 HYDRAULICS

*Curriculums: I, II, V*  
*Third year, first semester*

*Preparation: 21-2*  
*Three hours per week*

This course is a study of the principles of both hydrostatics and hydro-dynamics. The subjects considered are: the pressure on submerged areas together with their points of application; the laws governing the flow of fluids through orifices, short tubes, nozzles, weirs, pipe lines and open channels; and the dynamic action of water flowing over both stationary and moving curved surfaces. A short study of stream flow measure- and the design of beams.

PROFESSOR GRAMSTORFF.

### 13-3 HYDRAULICS

*Curriculums: III, IV*  
*Third year, second semester*

*Preparation: 21-2*  
*Two hours per week*

The work of this course is similar to Hydraulics 13-1, but adapted to the special needs of the students in these curriculums.

MR. ALCOTT.

### 14-1 THEORY OF STRUCTURES

*Curriculum: I*  
*Third year, second semester*

*Pre-requisite: 21-3*  
*Three hours per week*

The course comprises class and drawing-room work in studying the loads, reactions, shears, and moments acting upon structures of various kinds, such as roofs and bridges. A thorough study is also made of the various functions of the influence line; the methods used to determine the position of moving loads to produce maximum shears and moments on bridges; moments is also included.

MR. ALCOTT.

### 14-3 ENGINEERING STRUCTURES

*Curriculum: I*  
*Fourth year, both semesters*

*Pre-requisite: 14-1*  
*Six hours per week*

The computation and design of structures of wood, steel, and masonry by analytical and graphical methods are studied. The subjects considered are: plate girders, roof and bridge trusses of various types, such as simple trusses, bridge trusses with secondary web systems—including Baltimore and Pettit trusses—and trusses with multiple web systems, lateral and portal bracing, transverse bents, viaduct towers, and cantilever bridges. A study is also made of the design of columns, tension

## NORTHEASTERN UNIVERSITY

members, pin and riveted truss joints, trestles of wood and steel, masonry dams, retaining walls, and arches. The student is also given training in the use of the standard handbooks in structural work. The object is to train the student thoroughly in the application of mechanics to the design of structures.

PROFESSOR ALVORD.

### 14-5 STRUCTURAL DRAWING

*Curriculum: I*

*Third year, first semester*

*\*Preparation: 041-1, 21-3*

*Three hours per week*

This course consists of the drawing of standard sections of structural steel shapes and connections, and the preparation of drawings representing elementary structural details. The course is designed to familiarize the student with the drawing, dimensioning, and detailing of structural parts.

PROFESSOR GRAMSTORFF.

### 14-6 STRUCTURAL DRAWING

*Curriculum: I*

*Third year, second semester*

*Preparation: 14-5*

*Three hours per week*

This is a continuation of Structural Drawing 14-5, but covering the designing and detailing of riveted connections. Short problems in design, typical of those met with in practice are analyzed.

PROFESSOR GRAMSTORFF.

### 14-7 STRUCTURAL DESIGN

*Curriculum: I*

*Fourth year, first semester*

*Pre-requisite: 14-6*

*\*Preparation: 14-3*

*Six hours per week*

The work consists of designing and detailing of structures using the theory learned in Engineering Structures 14-3. Complete working drawings are ordinarily made of some structure of the type of a single track plate girder railroad bridge.

PROFESSOR GRAMSTORFF.

### 14-8 STRUCTURAL DESIGN

*Curriculum: I*

*Fourth year, second semester*

*Preparation: 14-7*

*Six hours per week*

Additional work is undertaken in the design and detailing of a simple structure such as a riveted truss, highway or railroad bridge.

PROFESSOR GRAMSTORFF.



## SCHOOL OF ENGINEERING

### 15-1 CONCRETE

*Curriculum: I*  
*Fourth year, both semesters*

*Pre-requisite: 21-3*  
*Two hours per week*

Concrete as a material of construction is studied in detail, and the principles of reinforced concrete design are learned. Computations and designs are made of flat slabs, T beams, columns, footings, retaining walls, and arches.

PROFESSOR ALVORD.

### 15-2 CONCRETE DESIGN

*Curriculum: I*  
*Fourth year, both semesters*

*\*Preparation: 15-1*  
*Three hours per week*

This course consists of detailing and making of complete working drawings of the concrete structures designed in Concrete 15-1.

PROFESSOR ALVORD.

### 15-3 CONCRETE

*Curriculum: II*  
*Fourth year, first semester*

*Preparation: 21-3*  
*Two hours per week*

Concrete as a material of construction in general, with principles of reinforced concrete design, is studied.

PROFESSOR ALVORD.

### 16-1 MATERIALS

*Curriculums: I, II, V*  
*Fourth year, first semester*

*Preparation: 21-3*  
*Two hours per week*

A detailed study is made of the methods of manufacturing, properties, and uses of materials used in engineering work such as: iron, steel, lime, cement, concrete, brick, wood, and stone. Methods of testing and strength of various materials used by the engineer are also taken up. Each student is required to prepare a paper on some subject of especial importance which is assigned by the instructor.

PROFESSOR TOZER.

### 16-2 TESTING MATERIAL LABORATORY

*Curriculums, I, V*  
*Third year, second semester*

*Preparation: 21-3*  
*Two hours per week*

The work is done by the students and includes tests to determine the elongation, reduction of areas, modulus of elasticity, yield point, ultimate compressive strength of metals, such as steel, cast iron, copper and brass; tensile and compressive tests on timber and concrete; tests to determine the deflection,

## NORTHEASTERN UNIVERSITY

modulus of elasticity, elastic limit, and ultimate transverse strength of steel and wooden beams, subject to transverse loads. Tests are also made on cement mortars to determine the strength of cubes and briquettes at different ages.

PROFESSOR ALVORD.

### 16-3 FOUNDATIONS

*Curriculum: I*  
*Fourth year, first semester*

*\*Preparation: 14-1, 16-1*  
*Two hours per week*

The subjects treated are pile formations—including those of timber and concrete—sheet piles, coffer-dams, box and open caissons, pneumatic caissons, pier foundations in open wells, bridge piers, and abutments.

PROFESSOR GRAMSTORFF.

### 16-4 GEOLOGY

*Curriculum: I*  
*Third year, first semester*

*Preparation: —*  
*Two hours per week*

This is a study of earth movements and the various terrestrial applications of solar energy. The more important geological processes, erosion, sedimentation, deformation, and eruption are taken up and discussed. The latter part of the course is devoted to lectures on the broader structural features of the earth's crust and the application of the principles of structural geology to practical engineering problems.

PROFESSOR ALVORD.

### 17-1 HIGHWAY ENGINEERING

*Curriculum: I*  
*Fourth year, second semester*

*Preparation: 12-1*  
*Two hours per week*

In this course are taken up the location, construction, and maintenance of roads, street design, and street drainage; sidewalks; pavement foundations; and the construction, cost and maintenance of the various kinds of roads and pavements, including asphalt, brick, stone-block, wood-block, macadam (both water bound and bituminous), bituminous concrete, hydraulic cement concrete, gravel, and earth. Special consideration is given to the modern concrete road.

PROFESSOR INGALLS.

# SCHOOL OF ENGINEERING

## \*DEPARTMENT OF MECHANICAL ENGINEERING

**NOTE—Pre-requisite Courses:** The following table sets forth the pre-requisite courses in the Department. These must have been completed before advanced courses may be taken. The advanced courses are listed below by years, followed by the pre-requisite courses.

### SECOND YEAR

<i>Advanced Courses</i>	<i>Pre-requisite Courses</i>
023-1 Differential Calculus	020-1 College Algebra and/or
21-1 Applied Mechanics	022-1 Analytical Geometry
	031-1 Physics

### THIRD YEAR

21-3 Strength of Materials	21-1 Applied Mechanics
----------------------------	------------------------

### FOURTH YEAR

22-3 Machine Design	21-3 Strength of Materials
23-5 Heat Engineering	23-1 Heat Engineering

## 21-1 APPLIED MECHANICS (STATICS)

*Curriculums: All*

*Pre-requisite: 031-1*

*Second year, first semester*

*Preparation: 021-1, 022-1*

*Three hours per week*

The subjects treated are: Collinear, parallel, con-current, and non-current force systems in a plane and in space; the determination of the resultant of such systems by both algebraic and graphical means, special emphasis being placed on the funicular polygon method for coplanar force systems; the forces required to produce equilibrium in such systems; first moments; and problems involving static friction, such as the inclined plane and the wedge.

PROFESSOR FERRETTI AND MR. BAIRD.

## 21-2 APPLIED MECHANICS (KINETICS)

*Curriculums: All*

*Preparation: 21-1, 023-1*

*Second year, second semester*

*Three hours per week*

The subjects treated are: continuation of first moments as applied to varying intensity of force and to the determination of center of gravities of areas and solids; second moments and the application to the determination of moment of inertia of plane and solid figures, radius of gyration, polar moment of inertia; product of inertia principle axes, uniform motion, uniformly accelerated motion, variable accelerated motion,

•Preparation courses marked with asterisk and the advanced course may be carried simultaneously.

## NORTHEASTERN UNIVERSITY

harmonic motion, simple pendulum, rotation, work, energy, momentum and impact.

PROFESSOR FERRETTI AND MR. BAIRD.

### 21-3 STRENGTH OF MATERIALS

*Curriculum: I, II*

*Pre-requisite: 21-1*

*Preparation: 023-1, 023-2, 21-2*

*Third year, both semesters*

*Three hours per week*

The topics covered are: the physical properties of materials, analysis of stress, stresses in beams, deflection of beams, continuous beams, combined stresses, columns, shafting and springs.

PROFESSOR GRAMSTORFF.

### 21-4 STRENGTH OF MATERIALS

*Curriculum: III, IV, V*

*Pre-requisite: 21-1*

*Preparation: 023-1, 023-2, 21-2*

*Third year, first semester*

*Three hours per week*

This course is similar to Strength of Materials 21-3, but more limited in time. The topics omitted are deflection of beams, continuous beams, combined stresses, shafting and springs.

PROFESSOR GRAMSTORFF.

### 22-1 GRAPHICAL ANALYSIS

*Curriculum: II*

*Preparation: 044-3*

*Third year, first semester*

*Six hours per week*

Many problems which may readily be solved by graphical methods are included here. Valve gear problems are solved by the use of the various diagrams. The kinematical features of various machines are studied by means of velocity and acceleration diagrams.

PROFESSOR FERRETTI.

### 22-2 MACHINE DESIGN

*Curriculum: II*

*\*Preparation: 21-3*

*Third year, second semester*

*Six hours per week*

This is an application of the principles studied in Applied Mechanics. The problem work of the course consists mainly in the design of a steam boiler as the stresses for such a design are known to a great degree of certainty, and the materials of construction are very reliable.

PROFESSOR FERRETTI.

## SCHOOL OF ENGINEERING

### 22-3 MACHINE DESIGN

*Curriculum: II*

*Pre-requisite: 21-3*

*Preparation: 22-2*

*Fourth year, first semester*

*Six hours per week*

Further practice is given the student in the application of theoretical principles previously studied, and at the same time he becomes familiar with the many practical details which must be considered in design work. The problems taken up in the early part of the course are of a static nature, while the later problems involve dynamical stresses. The problems vary from year to year, but the following are typical of the designs taken up: hydraulic press, arbor press, hydraulic flanging clamp, crane, air compressor, punch and shear, stone-crusher, etc.

In each design, the constructive details are carefully considered, with special attention to methods of manufacture, provision for wear, lubrication, etc. The work is based on rational rather than empirical methods, the student being required to make all calculations for determining the sizes of the various parts and all necessary working drawings.

PROFESSOR ZELLER.

### 22-4 MACHINE DESIGN

*Curriculum: II*

*Preparation: 22-3*

*Fourth year, second semester*

*Six hours per week*

This course comprises a continuation of Machine Design 22-3 with special reference to designs involving dynamical stresses. A thorough discussion of the principles and methods of lubrication forms a part of the course.

PROFESSOR ZELLER.

### 22-5 MECHANISMS OF MACHINES

*Curriculum: II*

*Preparation: 044-3*

*Third year, second semester*

*Three hours per week*

The course is designed to supplement the work in pure mechanism as given in Mechanism 044-3, by a consideration of the application of mechanisms to actual machines, thereby furnishing the student with a series of practical mechanisms to accomplish definite purposes, and increasing his ability to analyze the action of other machines.

PROFESSOR STEARNS.

## NORTHEASTERN UNIVERSITY

### 23-1 HEAT ENGINEERING

*Curriculum: II*  
*Third year, both semesters*

*Preparation: 023-2, 033-1*  
*Three hours per week*

The fundamental principles underlying the subject of thermodynamics are studied. A study is made of the following topics: the properties of perfect gases, saturated and superheated vapors, air and steam cycles, and the flow of fluids through nozzles, and pipe-lines, and the calculations of an air compressor. In the second half-year the principles of thermodynamics are applied to the various parts of the modern steam power plant. This includes a study of boilers, fuels, and combustion, flue gas analysis, feed-water heaters, chimneys, steam engines, condensers, cooling towers, gas power, steam turbines, and also the methods of testing power plant equipment.

PROFESSOR FERRETTI.

### 23-3 HEAT ENGINEERING

*Curriculum: I, IV, V*  
*Third year, second semester*

*Preparation: 023-2, 033-1*  
*Three hours per week*

The subject matter of heat engineering is presented to the students of civil, chemical, and administrative engineering, to meet their special needs.

PROFESSOR FERRETTI.

### 23-4 STEAM TURBINES

*Curriculum: II*  
*Fourth year, second semester*

*Pre-requisite: 23-1*  
*Preparation: 24-3*  
*Three hours per week*

This course is a study of the principles of the flow of fluids kinetic effects, and thermodynamics with the steam turbine used as a current example. The fundamental differences in the principle of the different types of turbines; the field of application of the steam turbine; and the influence of high vacuum together with the condensing equipment developed for turbine work are all given careful attention.

PROFESSOR FERRETTI.

### 23-5 HEAT ENGINEERING

*Curriculum: II*  
*Fourth year, first semester*

*Pre-requisite: 23-1*  
*Preparation: 24-3*  
*Three hours per week*

A discussion of the theory and apparatus of mechanical refrigeration comprises the greater part of this course. Both the compression and absorption types of machines are consid

## SCHOOL OF ENGINEERING

ered. During the latter part of the course, the application of refrigeration to ice making is considered.

PROFESSOR FERRETTI.

### 23-7 HEAT ENGINEERING

*Curriculum: III*

*Third year, both semesters*

*Preparation: 023-1, 033-1*

*Three hours per week*

This course is similar in many respects to Heat Engineering 23-1, but less time is devoted to theoretical discussion and the remaining time is spent in a consideration of the types of boilers, engines, and auxiliary equipment. The aim of the entire course is to familiarize the students with the theory and application of prime movers, having fuels as the basis of power, for electrical generation.

PROFESSOR STEARNS.

### 24-1 PRODUCTION ENGINEERING

*Curriculum: II*

*First year, first semester*

*Preparation: —*

*Four hours per week*

This is a descriptive course intended to acquaint the student with the organization, methods, and equipment used in industrial plants engaged in quantity production. For purposes of discussion the plant is divided into its various units such as: general offices, drafting room, pattern-shop, foundry, machine shop, erecting shop, testing-room, etc. The mechanical equipment, filing systems, cost-keeping systems, "follow-up" cards, etc., are described, and representative examples are shown.

PROFESSOR TOZER.

### 24-3 POWER PLANT EQUIPMENT

*Curriculums: II, V*

*Third year, first semester*

*Preparation: 24-1*

*Two hours per week*

The course is largely a description of the many appliances used in modern power plants. There is also taken up a discussion of boilers and boiler accessories, ash and coal handling systems, the various types of engines—gas engines and turbines—with their valve gears and governing devices, condensers, feed-water heaters, pumps, etc.

PROFESSOR ZELLER.

### 24-4 POWER PLANT ENGINEERING

*Curriculum: II*

*Fourth year, second semester*

*Preparation: 23-1, 24-3*

*Three hours per week*

This course consists of topics and problems chosen largely from engineering practice selected to convey to the engineering

## NORTHEASTERN UNIVERSITY

students a firm grasp of fundamental principles and engineering methods of attacking and analyzing problems in power plant, not only from the point of view of scientific theory, but also with due consideration of the limitations imposed by practice and by costs. Efficiency and operation costs of different types of plants such as steam, hydro-electric and Diesel engines are also carefully studied to determine the type of plant best suited for the conditions and location involved.

PROFESSOR ZELLER.

### 25-1 INDUSTRIAL PLANTS

*Curriculum: II*

*Fourth year, first semester*

*second semester*

*Preparation: 21-3, 24-3*

*Four hours per week*

*Six hours per week*

The principles involved in the erection, installation, and management of an industrial plant are studied. A description of the different types of structures, with consideration of such details as foundations, walls, columns, floors, windows, etc., is followed by a discussion of the installation of the power plant and machinery. A discussion of illumination, fire-prevention, heating and ventilation, routing of materials, and the organization and management of a plant are taken up. Design problems are given in connection with the course.

PROFESSOR STEARNS.

### 26-1 ENGINEERING LABORATORY

*Curriculum: II*

*Third year, second semester*

*Preparation: \*23-1, 24-3*

*Two hours per week*

The course comprises a preliminary series of experiments upon various appliances used in modern power plants to illustrate under actual conditions the principles developed in Heat Engineering 23-1. These exercises are in preparation for more complete tests to be run the following year.

The students here apply the knowledge they have gained in the class room in actual tests, making a complete report of the experiment including method of testing and calculations. The series consist of experiments of which the following may be mentioned as illustrative of the type of work.

Calibration of Gages

Indicator Practice

Plain Slide Valve Setting

Steam Calorimeter Test

Flow of Steam through orifice

Flow of Air through orifice

Steam Injector Test

Condenser Test.

PROFESSOR STEARNS AND MR. ANDERSON.



## SCHOOL OF ENGINEERING

### 26-2 ENGINEERING LABORATORY

*Curriculum: II*

*Fourth year, first semester*

*Preparation: 26-1*

*Four hours per week*

The course comprises a series of more complete tests on various power plant equipment over that of 26-1.

Included in the apparatus tested may be mentioned:

Uniflow Steam Engine

Gas Engine

Air Compressor

Triplex Power Pump

Refrigerating Machine

Steam Pulsometer

Weir Calibration

Pelton Water Wheel

Ford Gasoline Engine

Warren Steam Pump

Centrifugal Pump

Steam Turbine

Semi-Diesel Engine

A complete report in accordance with A. S. M. E. Power Test Code is made on each test, describing machine tested, how test is made, and results from test.

PROFESSOR STEARNS AND MR. ANDERSON.

### 26-3 ENGINEERING LABORATORY

*Curriculum: II*

*Fourth year, second semester*

*Preparation: 26-2*

*Two hours per week*

This is a continuation of course 26-2, including work of a similar nature as listed in that course. In addition a boiler test is made on the boilers in the power plant to determine the relative efficiencies of the boilers using both coal and oil.

PROFESSOR STEARNS AND MR. ANDERSON.

### 26-6 ENGINEERING LABORATORY

*Curriculum: III*

*Fourth year, first semester*

*Preparation: 23-1, or 23-7*

*Three hours per week*

This course is a condensation of courses in Engineering Laboratory 26-1 and 26-2, including some of the experiments mentioned in both courses. The work follows along the same general lines.

PROFESSOR STEARNS AND MR. ANDERSON.

# NORTHEASTERN UNIVERSITY

## \*DEPARTMENT OF ELECTRICAL ENGINEERING

**NOTE—Pre-requisite Courses:** The following table sets forth the pre-requisite courses in the Department. These must have been completed before advanced courses may be taken. The advanced courses are listed below by years, followed by the pre-requisite courses.

### SECOND YEAR

<i>Advanced Courses</i>	<i>Pre-requisite Courses</i>
023-1 Differential Calculus	020-1 College Algebra and/or
32-3 Electrical Engineering II	022-1 Analytical Geometry
21-1 Applied Mechanics	32-1 Electrical Engineering I
	031-1 Physics

### THIRD YEAR

32-7 Electrical Engineering III	023-2 Integral Calculus
21-4 Strength of Materials	21-1 Applied Mechanics

### FOURTH YEAR

32-9 Electrical Engineering IV	32-7 Electrical Engineering III
34-1 Electrical Engineering VA	13-3 Hydraulics
34-1 Electrical Engineering VB	032-1 Light

## 30-1 APPLIED ELECTRICITY I

*Curriculums: I, II, IV, V*

*Second year, first semester*

*Preparation: 022-1, 031-1*

*Three hours per week*

This course is the foundation for subsequent electrical engineering work for students in Civil, Mechanical, Chemical and Administrative Engineering. Emphasis is laid on the fundamental principles, and the subject is developed by elaborating these principles through numerical applications. The topics discussed during the first period are, briefly: magnets, and magnetism, electric resistance and Ohm's law, electric work and power, series and parallel circuits, Kirchoff's law, electro-magnetism, electro-magnetic induction, magnetic properties of iron, electrolysis and batteries. During the second period, the course varies somewhat in content, depending upon the particular branch of engineering which the students in the class are studying. In all, however, some time is devoted to a consideration of various direct current machines and appliances, their characteristics and applications.

PROFESSOR WINKFIELD.

\*Preparation courses marked with asterisk and the advanced course may be carried simultaneously.

**SCHOOL OF ENGINEERING**

### 30-3 APPLIED ELECTRICITY II

Curriculums: I, II, IV, V  
Second year, second semester

Preparation: 30-1  
Three hours per week

The object is to fit the student to handle intelligently A. C. electrical problems that are likely to come up in connection with his chosen field. The topics discussed during the first period are, briefly: Alternating currents and voltages, inductance, capacitance; and circuits containing resistance, inductance and capacitance. In the second period, the time is devoted to a consideration of alternating current machinery and various subjects of especial interest to the particular curriculum concerned.

PROFESSOR WINKFIELD

PROFESSOR WINKFIELD.

### 30-4 APPLIED ELECTRICITY LABORATORY

Curriculums: I, II  
Second year, both semesters

Preparation: \*30-1, \*30-3  
Three hours per week

The characteristics and operation of direct and alternating current machinery, discussed in course 30-3, are studied. The experiments deal with the following: resistance measurement; speed control direct-current motors; voltage control of generators; voltage regulation of direct-current generators; speed regulation of direct-current motors; brake tests of various types of direct and alternating-current motors; measurement of losses and the calculating of the efficiency of motors and generators; determination of the characteristics of transformers; various polyphase connections; synchronous motor, rotary converter, and induction motor characteristics. A written report is required on each experiment, and care is exercised that such reports be correct in manner and form.

PROFESSOR WINKFIELD, MR. LEWIS AND ASSISTANTS.

## 32-1 ELECTRICAL ENGINEERING I

<i>Curriculum: III</i>	<i>Preparation: —</i>
<i>First year, first semester</i>	<i>Two hours per week</i>
<i>                                    second semester</i>	<i>Three hours per week</i>

This course is a study in detail of the electric current, electromotive force and resistance, electrical work and power, electrical circuits, Kirchoff's laws, primary and secondary batteries, magnetism, electromagnetism, electro-magnetic, induction, self and mutual inductance, electro-statics, energy stored in the electro-magnetic and electro-static field. The

## NORTHEASTERN UNIVERSITY

practical units of measurement are discussed, as the several quantities to which they apply are successively reached. This is the fundamental electrical course of the curriculum and covers the matters usually taken up in a course of college physics, but in a more thorough manner and rather more from an engineering standpoint.

PROFESSORS WINKFIELD AND PORTER.

### 32-3 ELECTRICAL ENGINEERING II

*Curriculum: III*

*Pre-requisite: 32-1*

*Preparation: 022-1*

*Second year, both semesters*

*Five hours per week*

The course comprises a careful, though more or less descriptive, discussion of the dynamo in general armature windings, armature reactions and their compensation, commutation, etc., followed by a thorough study of the direct-current machine both as generator and motor, during the first semester; and, during the second semester, a consideration of the methods of testing for efficiency and performance followed by an examination of some of the applications of the machines studied, as, parallel operation, three-wire systems, boosters and balancers, special motor application and control methods. Much emphasis is placed upon the working out of practical problems.

PROFESSOR SMITH AND MR. LEWIS.

### 32-4 ELECTRICAL ENGINEERING II, LABORATORY

*Curriculum: III*

*\*Preparation: 32-3*

*Three hours per week, 1st sem.*

*Second year, both semesters*

*Five hours per week, 2d sem.*

This course consists of a carefully selected series of experiments intended to exemplify qualitatively, and in the clearest manner, the principles developed in the parallel lectures, 32-3. It includes a series of about twenty experiments, of which the following may be mentioned as illustrative of the type of work:

The starting of a shunt motor, and starting devices.

The speed, field, and voltage relations in a separately excited machine.

The heat test of a generator.

The characteristic curves of generators.

The parallel operation of shunt and compound generators.

The three-wire balancer set.

## SCHOOL OF ENGINEERING

The speed and torque curves of the series motor.

Satisfactory completion of fifteen experiments is the minimum acceptable amount of work.

Since the purpose of the course is in part to develop correct methods of work, it is intended that the whole of the preparatory work, as well as the working up of the data obtained, shall be done in the laboratory under supervision of the instructor, so far as necessary.

MR. LEWIS AND ASSISTANTS.

### 32-6 ELECTRICAL ENGINEERING III, LABORATORY

*Curriculum: III*

*Preparation: 32-4, \*32-7, \*33-1*

*Third year, both semesters*

*Six hours per week*

The course consists of a series of experiments involving the testing of machines; together with experiments intended to elucidate practically the principles developed in the parallel course on alternating currents, 32-7, and also to train the student in the use of the special types of instruments which he will later use in laboratory work upon alternating current machinery.

Illustrative experiments are:

Stray power tests, Prony brake tests, retardation tests, pumping back tests, regulation tests, heat runs, analysis of losses, etc.

Study of A.C. series and parallel circuits, resonant conditions effect of frequency change on circuit constants, power factor measurements, power measurement, etc.

As the course progresses, the student is thrown more and more upon his own resources; a desired result is stated to him, and he is left to plan out his own methods, settle upon the apparatus needed, solve his precision requirements, calibrate the instruments, if necessary, and finally turn in a detailed report covering all phases of the work from its inception.

PROFESSORS PORTER AND RICHARDS.

### 32-7 ELECTRICAL ENGINEERING III

*Curriculum: III*

*Pre-requisite: 023-2*

*Preparation: 32-3*

*Third year, both semesters*

*Three hours per week*

Lectures, recitations and problem work upon the electro-magnetic and electro-static fields and the theory of alternating

## NORTHEASTERN UNIVERSITY

currents are taken up. The course covers the consideration of the "steady state," both when we have a pure sine wave and when we have a complex wave. Transients are not considered. The subject is developed principally by the aid of vector algebra, and the student is urged to use the methods of complex quantity to the fullest extent.

Application of the principles developed to all possible combinations of resistance, inductive and condensive reactances in both single and polyphase circuits is given by the working of about two hundred problems involving both analytical and graphical methods.

PROFESSORS SMITH AND PORTER.

### 32-8 ELECTRICAL ENGINEERING IV, LABORATORY

*Curriculum: III*

*Fourth year, both semesters*

*Preparation: \*32-9*

*Six hours per week*

This is a laboratory course to accompany course 32-9 in alternating current machinery. The work includes tests on the heating, efficiency, and determination of the characteristics of the various types of alternating-current machinery, such as transformers, generators, and motors. A detailed preliminary study is made of each assigned experiment, involving the theoretical principles, the method of procedure to obtain the required results, and the way in which the results should be worked up. This is embodied in a preliminary report. The student then does the necessary laboratory work to obtain the required data; and finally works up the whole into a detailed final report. The assistance given by the instructor is reduced to a minimum, the initiative and resourcefulness of the student being depended on to the greatest extent.

PROFESSOR RICHARDS AND ASSISTANT.

### 32-9 ELECTRICAL ENGINEERING IV

*Curriculum: III*

*Fourth year, both semesters*

*Pre-requisite: 32-7*

*Five hours per week*

This is a careful, thorough, and detailed discussion of the construction, theory, operating characteristics, and testing of the various types of alternating current machinery. The first half of the course is equally divided between the transformer and the synchronous generator. In the second half of the course synchronous motors, parallel operation of alternators,

## SCHOOL OF ENGINEERING

nchronous converters, polyphase induction motors, the induction generator, single phase induction motors, and commutating alternating-current motors are taken up.

PROFESSOR RICHARDS.

### 3-1 ELECTRICAL MEASUREMENTS

*Curriculum: III*

*Preparation: 023-2, 32-3*

*Third year, both semesters*

*Two hours per week*

A brief discussion of measurement in general and electrical measurements in particular, in which a review of the electrical units and their definitions has a part, is taken up. Resistance devices, galvanometers, ammeters, and voltmeters are next discussed, the treatment of other instruments being taken up later in connection with their uses. This is followed by a detailed discussion of the methods of measuring the various electrical quantities—resistance, resistivity, conductivity, current, electromotive force, capacitance, inductance, magnetic induction, permeability, hysteresis loss, energy, and power. The student is given a thorough discussion of the construction, theory of operation, method of use, sources of error, etc., of the types of measuring instruments used in commercial work and in the standardizing laboratory.

PROFESSOR PORTER.

### 3-2 ELECTRICAL MEASUREMENTS LABORATORY

*Curriculum: III*

*Preparation: \*33-1*

*Third year, second semester*

*Three hours per week*

This course consists of a series of experiments emphasizing the principles developed in course 33-1. The student becomes familiar with the use of the standard apparatus in use in testing laboratories. Particular stress is laid on the correct use of the apparatus, and precision discussions are required throughout.

The experiments cover such matters as the measurement of resistance by various methods, resistivity, conductivity, electromotive force, current inductance, capacitance, magnetic induction, magnetizing force, hysteresis loss, etc., in cable testing, magnetic testing, wave form determination, and the use of special apparatus.

Thorough training in the principles of precision of measurements is also given, and applied to each experiment performed.

PROFESSOR PORTER.

## NORTHEASTERN UNIVERSITY

### 33-4 ADVANCED STANDARDIZING LABORATORY

*Curriculum: III*

*Fourth year, first semester*

*Preparation: 33-2*

*Three hours per week*

This laboratory course is given over to the use of Laboratory and Secondary standards and precision methods as applied to checking resistances, calibration of indicating and integrating instruments of various types.

It involves the use of the potentiometer, Weston laboratory standard instruments; precision model Kelvin Low Resistance & Carey-Foster bridges; Westinghouse portable oscillograph standard day light photometer; potential phase shifters and rotating standard.

Testing for characteristics and investigation of the action of three element tubes, tungar rectifier, and Piezo oscillating crystals.

Precision work is insisted on throughout, and while the student is trained to develop speed and quickness of manipulation, this is never at the expense of quality and accuracy of the work.

PROFESSOR PORTER.

### 34-1 ELECTRICAL ENGINEERING V

*Curriculum: III*

*Fourth year, both semesters*

*3½-1a, Option a*

*Pre-requisite: 032-1*

*Preparation: 23-7, \*32-9*

*Two hours per week*

This course covers the principles of illuminating engineering which takes about three quarters of the assigned time, the remaining portion being used for a consideration of the industrial application of the various types of electric motors in the arts.

The lectures cover,—physics of light production, light sources, photometric principles, the eye and vision, principles of illumination, light, shade and color, daylight. In addition such subjects as residence lighting, commercial lighting, street lighting, etc., are assigned to different students to present before the class the other members of which are expected to discuss the presentation.

Experiments with the bar photometer, illuminometer, spectrophotometer, and examination of the illumination of different rooms round out the work.

PROFESSOR SMITH.



## SCHOOL OF ENGINEERING

*34-1b, Option b*

*Pre-requisite: 13-3*

This course covers the principles of the electrical transmission of energy for power purposes. Relying largely upon certain parallel courses for the consideration of the generating apparatus and prime movers, after a brief consideration of the organization of the station the major part of the time is taken up with a thorough discussion of the transmission line especially the design and calculation of its constants and functioning. The use of hyperbolic trigonometry, and the complex angle and its functions is insisted upon. Many problems are assigned, and the work is rounded out by experiments in the laboratory upon an artificial line, and with the oscillograph upon the various types of transient phenomena.

PROFESSOR SMITH.

### 5-1 ADVANCED ELECTRICITY

*Curriculum: III*

*Preparation: 032-1, 033-1, 33-1*

*Fourth year, both semesters*

*Two hours per week*

This course is intended to give the student a thorough grounding in the principles both theoretical and experimental underlying the application of electronic phenomena. After a brief discussion of the background of the earlier electrical theories a detailed consideration of the work leading up to the isolation of the electron and the determination of its measure is taken up. This is followed by the study of the different ways in which an electron flow can be produced, controlled and measured together with a discussion of some of the more important modes of application.

Parallel with the lectures a series of illustrative experiments are carried through in the Laboratory intended to elucidate the principles as they are developed in the class room.

PROFESSOR SMITH.

# NORTHEASTERN UNIVERSITY

## \*DEPARTMENT OF CHEMICAL ENGINEERING

NOTE—*Pre-requisite Courses:* The following table sets forth the pre-requisite courses in the Department. These must have been completed before advanced courses may be taken. The advanced courses are listed below by years, followed by the pre-requisite courses.

### SECOND YEAR

<i>Advanced Courses</i>	<i>Pre-requisite Courses</i>
43-1 Quantitative Analysis	41-1 Inorganic Chemistry
023-1 Differential Calculus	020-1 College Algebra and/or
	022-1 Analytical Geometry
21-1 Applied Mechanics	031-1 Physics

### THIRD YEAR

44-1 Technical Analysis	43-1 Quantitative Analysis
21-4 Strength of Materials	21-1 Applied Mechanics

### FOURTH YEAR

46-3 Chemical Engineering	46-2 Chemical Engineering
---------------------------	---------------------------

#### 40-1 INORGANIC CHEMISTRY

*Curriculum: II, III, V*  
*First year, first semester*

*Preparation: —*  
*Four hours per week*

This course, inorganic chemistry, is designed to meet the needs of students in non-chemical courses. A brief discussion of the general principles of chemistry as applied to engineering, with the idea of illustrating the applications of chemistry to special lines of engineering work, is taken up.

PROFESSOR MCGUIRE AND MR. BAKER.

#### 40-1a INORGANIC CHEMISTRY

*Curriculum: I*  
*Third year, second semester*

*Preparation: —*  
*Four hours per week*

The course is intended to familiarize the student with the principles of Inorganic Chemistry. The latter part of the course deals with the application of Chemistry to Civil Engineering.

MR. BAKER.

#### 41-1 INORGANIC CHEMISTRY

*Curriculum: IV*  
*First year, both semesters*

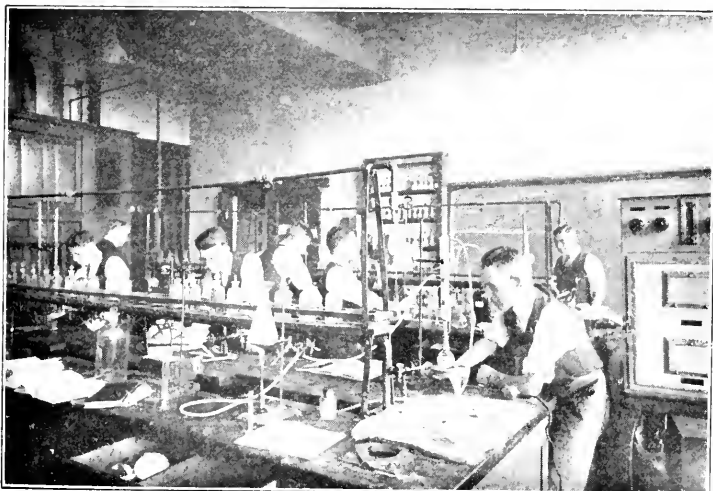
*Preparation: —*  
*Four hours per week*

The fundamental principles of the science are taught b

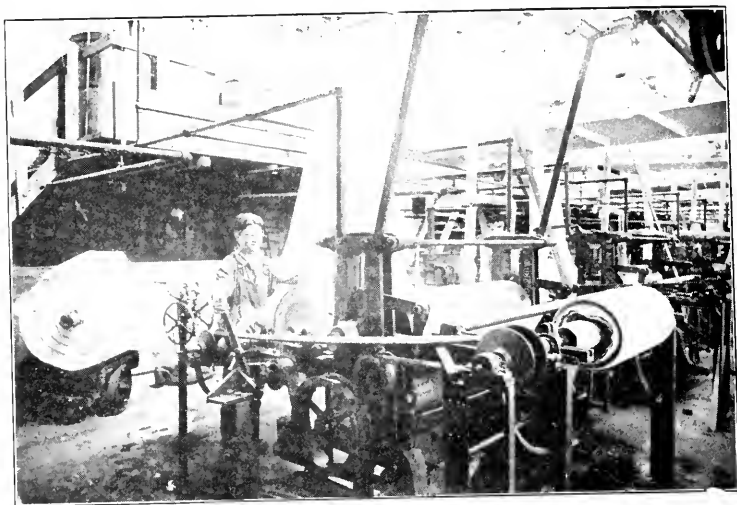
\*Preparation courses marked with asterisk and the advanced course may be carried simultaneously.



Class in Analytical Chemistry Laboratory



Class in Organic Chemistry



Dyeing Machine Operation,  
Glenlyon Dye Works, Saylesville, R. I.



Testing Milk, Boston Bio-Chemical Laboratory

## SCHOOL OF ENGINEERING

means of experimental lectures. Topics of a broad general character are taken up in the first part of the subject, in connection with the descriptive chemistry of the non-metallic elements, followed later by more specialized work in connection with the elements. Recitations will include a short written test on the two lectures of the week. Special attention is given to chemical calculations based on practical application.

PROFESSOR STRAHAN.

### 4-2 INORGANIC CHEMISTRY LABORATORY

*Curriculum: IV*

*Preparation: \*41-1*

*First year, both semesters*

*Five hours per week*

The object is to cultivate scientific attitude and habit of thought on the part of the student, and to increase his power of acquiring knowledge, whether it be from book, lecture, or from experiment. The experiments are planned to illustrate the topics which have been discussed in the lecture room. Careful manipulations, thoroughness in observation, and accuracy in arriving at conclusions are required of each student. In tests, as in all subsequent laboratory work, neat and satisfactory notes will be considered an essential part of the work.

MR. BAKER AND ASSISTANTS.

### 4-1 QUALITATIVE ANALYSIS

*Curriculum: IV*

*Preparation: 41-1*

*First year, summer term*

*Ten hours per week*

The course is designed not merely to consider the procedures used in the detection of the common elements, but to deal in a much broader way with the principles involved in chemical analysis and to broaden the student's knowledge of inorganic chemistry, especially the chemistry of the metallic elements. A great deal of time is devoted to the study of the principles of hydrolysis, solubility product, correct concentration, amphoteric substances, and the general laws of solutions. In the latter part of the course the analysis of unusual mixtures will be discussed with especial emphasis on the interpretation of analytical results.

PROFESSOR MCGUIRE.

# NORTHEASTERN UNIVERSITY

## 42-2 QUALITATIVE ANALYSIS LABORATORY

*Curriculum: IV*

*Preparation: \*42-1*

*First year, summer term*

*Twenty-eight hours per week*

After a series of preliminary experiments illustrating principles and giving opportunity for practice in writing equations the analysis of unknown substances is undertaken, beginning with solutions and simple salts, and later analyzing mineral pigments, slag, alloys, and various commercial products, such as boiler compounds, cleaning powders, glass enamels, and similar inorganic substances.

PROFESSOR MCGUIRE.

MR. NEWMAN.

## 43-1 QUANTITATIVE ANALYSIS

*Curriculum: IV*

*Pre-requisite: 41-1*

*Second year, first semester*

*Two hours per week*

This course is intended to furnish a broad but thorough foundation for any subsequent analytical work which the student may be called upon to perform. Certain typical analyses are taken up in detail and considered from this point of view. As the correct calculation of analytical results is of no less importance than the actual procedures of analysis, a number of problems form a very important part of the course.

PROFESSOR MCGUIRE.

## 43-2 QUANTITATIVE ANALYSIS LABORATORY

*Curriculum: IV*

*Preparation: \*43-1*

*Second year, both semesters*

*Five hours per week*

This course consists of laboratory work illustrating the methods taken up in course 43-1. After acquiring familiarity with the various measuring instruments, the student performs the analyses which were discussed in the class-room, at the same time acquiring the manipulative skill and accuracy necessary for successful analytical work.

PROFESSOR MCGUIRE.

## 44-1 TECHNICAL ANALYSIS

*Curriculum: IV*

*Pre-requisite: 43-1*

*Third year, first semester*

*Three hours per week*

This course, which is a continuation of course 43-1, applies the principles taken up there to actual commercial problems. Each method is taken up from the standpoint of rapidity, accuracy, and adaptability to the problem at hand. The work

## SCHOOL OF ENGINEERING

will be varied from year to year but will be taken from the analysis of steel, coal, ores, gases, oils, water, paints and

PROFESSOR MCGUIRE.

### 42 TECHNICAL ANALYSIS LABORATORY

*Curriculum: IV*

*Preparation: 43-2*

*Third year, first semester*

*Five hours per week*

The laboratory work is to illustrate the methods discussed in course 44-1. A number of short routine analyses are performed in such a way as to acquire speed without the sacrifice of correctness of technique. The latter part of the course will consist of individually assigned problems upon the subjects in which the student is particularly interested.

PROFESSOR MCGUIRE.

### 43 TECHNICAL ANALYSIS

*Curriculum: IV*

*Preparation: 44-1*

*Third year, second semester*

*Two hours per week*

This course is designed to cover in a brief manner the subject of metallography. The metallographic methods of investigation, including preparation of sample, etching, and microscopic examination will be discussed. A discussion of the more common non-ferrous alloys including bearing metals, type metals, solders, and brass will be undertaken by the interpretation of their temperature, composition diagrams and application to the Phase Rule. A portion of the time will also be devoted to the iron-carbon diagram, which will include the metallurgy and metallography of cast iron, malleable iron, carbon steels, and special steels.

PROFESSOR MCGUIRE.

### 44 ORGANIC CHEMISTRY

*Curriculum: IV*

*Preparation: 41-3, 44-1*

*Third year, both semesters*

*Three hours per week*

The course consists of the underlying principles and theories of organic chemistry, the methods of preparation and characteristic reactions of carbon compounds. The important organic compounds will be considered in detail, because they serve as the most convenient examples for illustrating fundamental principles which elucidate the chemical character of substances which are of practical importance.

PROFESSOR STRAHAN.

## NORTHEASTERN UNIVERSITY

### 45-2 ORGANIC CHEMISTRY LABORATORY

*Curriculum: IV*

*Preparation: \*45-1*

*Third year, both semesters*

*Five hours per week*

This course comprises the operations, apparatus, and the laboratory technique involved in organic work such as fractional distillation, extraction, crystallization, steam distillation, determinations of melting points, boiling points, and the like. It deals also with general methods of preparation, such as etherification, saponification, sulphonation, diazotization, etc. The student will prepare a number of compounds—including nitro-benzene, aniline, ethers, phenols, and other typical organic substances.

PROFESSOR STRAHAN.

### 45-3 ORGANIC CHEMISTRY

*Curriculum: IV*

*Preparation: 45-1*

*Fourth year, both semesters*

*Two hours per week*

A review of course 45-1 is given, but the subject is studied from a more mature point of view to furnish the student a more thorough survey of the fundamental principles which underlie the modern developments in this branch of chemistry.

Emphasis is placed on the effect of the nature of organic radicals on the properties of the compounds containing them, the effect of unsaturation, and the influence of structure and substituents on the activity of groups and the laws of substitution.

Industrially important compounds are treated more in length than those of a more purely scientific use and of interest to the advanced students only.

During the latter part of the course outside reading will be assigned in the scientific journals, followed by reports and discussions.

PROFESSOR STRAHAN.

### 45-4 ORGANIC CHEMISTRY LABORATORY

*Curriculum: IV*

*Preparation: \*45-3*

*Fourth year, both semesters*

*Five hours per week*

The work consists of preparations and reactions of typical organic substances, including the methods of separation and identification of simple mixtures. The instruction also includes a study of the qualitative tests for the important groups occurring in organic compounds, together with the



## SCHOOL OF ENGINEERING

ther physical data which would give valuable information as to the nature of the compound under examination.

The student is given several unknown pure compounds and mixtures to analyze which trains him to use his head as well as the information supplied in his text-books.

PROFESSOR STRAHAN.

### 6-1 CHEMICAL ENGINEERING

*Curriculum: IV*

*Third year, second semester*

*Preparation: \*13-3, \*23-3, 43-1*

*Two hours per week*

The course consists of the study of basic principles such as the Law of Conservation of Elements, the Law of Conservation of Energy, and the Stoichiometrical Relationships of Solids and Gases. It is desired by the correlation of theoretical principles in the form of industrial plant problems to enlarge the viewpoint of the student and prepare him for Chemical Engineering gas and other general chemicals

MR. BAKER.

### 6-3 CHEMICAL ENGINEERING

*Curriculum: IV*

*Fourth year, both semesters*

*Pre-requisite: 46-2*

*Four hours per week*

This is a continuation of the study of the principles underlying the mechanical operations involved in chemical industries together with a study of the apparatus used to perform these operations. The subjects of crushing and grinding, separation, flow of heat, flow of fluids, evaporation, distillation, and drying, are considered in detail, accompanied by the solution of typical problems of a chemical engineering nature.

MR. BAKER.

### 7-1 INDUSTRIAL CHEMISTRY

*Curriculum: IV*

*Fourth year, first semester*

*Preparation: 44-1, 45-1*

*Four hours per week*

The more important industrial processes are studied with a view to the general chemistry involved and to the various types of apparatus necessary to carry out the chemical reactions. The student is given a broad survey of the field of chemical industry and a knowledge of the relationships of the different industries to one another. The industries studied

## NORTHEASTERN UNIVERSITY

include the production of acids, alkali, fertilizers, glass, pigments, cements, soap, explosives, paper, petroleum, illumination-Engineering 46-3.

MR. BAKER.

### 47-2 INDUSTRIAL CHEMISTRY LABORATORY

*Curriculum: IV*

*Preparation: 44-2*

*Fourth year, both semesters*

*Four hours per week*

The quantitative study of the preparation and purification of a small number of chemical products, selected as types of reactions of industrial importance, is made. The processes employed are carefully controlled, and the final products are analyzed to determine their purity. When the work is completed, a careful detailed report of each process is made and discussed in class.

MR. BAKER.

### 48-1 PHYSICAL CHEMISTRY

*Curriculum: IV*

*Preparation: 42-1, 43-1, 44-1*

*Fourth year, both semesters*

*Four hours per week*

Physical, or General Chemistry, is taken up largely from a quantitative standpoint, and throughout the entire course great emphasis is placed upon the problem work. Molecular and atomic weights, properties of substances in the gaseous, liquid, and solid states, solutions, both ionized and non-ionized, homogeneous and heterogeneous equilibrium, thermochemistry and electrochemistry are developed in this manner, while the remaining topics, largely descriptive, are treated more briefly.

PROFESSOR MCGUIRE.

# SCHOOL OF ENGINEERING

## \*DEPARTMENT OF ADMINISTRATIVE ENGINEERING

NOTE—*Pre-requisite Courses*: The following table sets forth the pre-requisite courses in the Department. These must have been completed before advanced courses may be taken. The advanced courses are listed below by years, followed by the pre-requisite courses.

### SECOND YEAR

<i>Advanced Courses</i>		<i>Pre-requisite Courses</i>	
23-1	Differential Calculus	020-1	College Algebra and/or
		022-1	Analytical Geometry
21-1	Applied Mechanics	031-1	Physics

### 0-1 INDUSTRIAL ORGANIZATION

*Curriculum: V*

*\*Preparation: 014-1*

*Third year, first semester*

*Three hours per week*

This course takes up the types of business organization, including the individual enterprise, the partnership, the corporation, the joint stock company, and the legal trust. A study is made of the advantages of combinations and the effect of legal regulations.

PROFESSOR SCHLAGENHAUF.

### 0-2 INDUSTRIAL FINANCE

*Curriculum: V*

*\*Preparation: 50-1*

*Third year, second semester*

*Two hours per week*

This course deals with the sources of capital for our industrial enterprises, promotion, the marketings of the securities, providing of working capital, determination of dividends, insolvency, receivership and reorganization.

PROFESSOR SCHLAGENHAUF.

### \*50-6 BUSINESS ADMINISTRATION I

*Curriculum: V*

*\*Preparation: 50-2*

*Fourth year, first semester*

*Three hours per week*

The physical and the human factors are carefully considered. Particular attention is given to the problem of securing the maximum efficiency in the production of goods by proper location, layout, and equipment of the manufacturing plant, the correct sequence and control of the manufacturing processes.

MR. PAYNTER.

\*\*Not given 1926-1927.

\*Preparation courses marked with asterisk and the advanced course may be carried simultaneously.

## NORTHEASTERN UNIVERSITY

### **\*\*50-6—BUSINESS ADMINISTRATION II**

*Curriculum: V* *Preparation: 50-2, 50-6*  
*Fourth year, second semester* *Three hours per week*

This course deals with wages, methods of hiring workmen the training of workmen and welfare work. Some time is also given to the study of office management.

MR. PAYNTER.

### **\*\*50-8 BUSINESS ADMINISTRATION I**

*Curriculum: Full-time* *Preparation: —*  
*Third year, first term* *Three hours per week*

This course covers the organization and financing of business enterprises and also includes a study of plant location layout, types of buildings, heating and ventilation.

MR. PAYNTER.

### **\*\*50-9 BUSINESS ADMINISTRATION II**

*Curriculum: Full-time* *Preparation: —*  
*Third year, second term* *Three hours per week*

This course deals with power, time and motion study, standardization, and wage payments.

MR. PAYNTER.

### **\*\*50-9a BUSINESS ADMINISTRATION III**

*Curriculum: Full-time* *Preparation: —*  
*Third year, third term* *Three hours per week*

This course deals with personnel relations, budgeting, inventory control, purchasing, control of sales, and control of production. Some consideration is also given to office management.

MR. PAYNTER.

### **50-11 BUSINESS PRINCIPLES IN MERCHANDISING I**

*Curriculum: Full-time* *Preparation: —*  
*Second year, first term* *Three hours per week*

The object of the three courses in Business Principles of Merchandising is to familiarize the students with methods of marketing merchandise and to give them some training in the analysis of selling problems.

This course deals with consumers' buying habits and motive and with types, methods and cost of retail distribution of consumers' goods.

MR. PAYNTER.

## SCHOOL OF ENGINEERING

### 0-11a BUSINESS PRINCIPLES IN MERCHANDISING II

*Curriculum: Full-time*  
*Second year, second term*

*Preparation: —*  
*Three hours per week*

This course deals with the methods and costs of wholesale distribution of consumers' goods by merchants and manufacturers; and the methods of marketing industrial goods.

MR. PAYNTER.

### 0-11b BUSINESS PRINCIPLES IN MERCHANDISING III

*Curriculum: Full-time*  
*Second year, third term*

*Preparation: —*  
*Three hours per week*

This course deals with sales management, brand, trade-mark, and advertising policies, sales correspondence, and price policies.

MR. PAYNTER.

### 1-3 ELEMENTS OF ACCOUNTING

*Curriculum: V*  
*Third year, first semester*

*Preparation: —*  
*Four hours per week*

The aim of this course is to teach the fundamental principles of bookkeeping. This involves a study of the underlying principles of debits and credits, journalizing, posting to the ledger, and the preparation of the trial balance, profit and loss statement, financial statement, and the balance sheet.

MR. PAYNTER.

### 1-5 LABOR PROBLEMS

*Curriculum: V*  
*Fourth year, first semester*

*Preparation: —*  
*Three hours per week*

A brief survey of the economic and social relation of employer and the employed will be made. Topics to be considered are such as history of unionisms, policies of labor unions, types of unions, collective bargaining, and so forth.

PROFESSOR SCHLAGENHAUF.

### 1-6 INDUSTRIAL PROBLEMS

*Curriculum: V*  
*Fourth year, second semester*

*Preparation: —*  
*Two hours per week*

This course deals with wastes of industry; relation of state to industry; welfare of employees, including group insurance and workmen's compensation; relation to the general public, publicity, and so forth.

PROFESSOR SCHLAGENHAUF.

## SCHOOL OF ENGINEERING

### 51-7 PERSONNEL ADMINISTRATION

*Curriculum: V* *Preparation: —*  
*Fourth year, second semester* *Three hours per week*

This course contemplates a brief survey of the psychology of the workmen, tests for placement, mental alertness and ability tests, employment methods, education of workmen, wage payments, and relation of labor to industry and capital.

PROFESSOR SCHLAGENHAUF.

### 51-8 PSYCHOLOGY I

*Curriculum: V* *Preparation: —*  
*Fourth year, first semester* *Three hours per week*

This course is intended to give a brief systematic survey of the principles of psychology and their application. A brief description of the nervous system, followed by an account of the instincts, emotions, and thought processes, will constitute the material for study.

MR. ESTES.

### 52-2 MONEY AND BANKING

*Curriculum: Full-time* *Preparation: —*  
*Second year, first term* *Three hours per week*

This course is designed to give the student a broad view of the theory of money and banking, and also a general knowledge of banking practice in the United States and abroad.

PROFESSOR SCHLAGENHAUF.

### 52-2A CONTINUATION OF 52-2

### 52-2B CONTINUATION OF 52-2A

### 52-2C MONEY AND BANKING

*Curriculum: V* *Preparation: —*  
*Third year, second semester* *Three hours per week*

A broad view is given of the whole field of banking. The practical side of banking is emphasized in the study of the organization and operation of the commercial and investment banks.

PROFESSOR SCHLAGENHAUF.

### \*\*53-2 BUSINESS LAW I

*Curriculum: Full-time* *Preparation: —*  
*Third year, first term* *Three hours per week*

The main part of the course covers the nature of contracts parties to them, and their legality and interpretation. It also deals with the nature and formation of agency, the duties and

## SCHOOL OF ENGINEERING

liabilities arising out of agency, the various sorts of agents, and the termination of the agency contract.

MR. PAYNTER.

### **\*\*53-2a BUSINESS LAW II**

*Curriculum: Full-time  
Third year, second term*

*Preparation: —  
Three hours per week*

The things emphasized in this course are as follows: negotiable instruments, partnership, corporations, sales of personal property, and conditional sales.

MR. PAYNTER.

### **\*\*53-3b BUSINESS LAW III**

*Curriculum: Full-time  
Third year, third term*

*Preparation: —  
Three hours per week*

This course includes a study of bailments, guarantee and suretyship, mortgages, real property, landlord and tenant, taxes, and insurance.

MR. PAYNTER.

### **53-3 BUSINESS LAW I**

*Curriculum: V  
Fourth year, first semester*

*Preparation: —  
Three hours per week*

A thorough study is made of the various phases of contracts including negotiable contracts that are of most value to engineers, and of the nature, formation and termination of agency.

MR. PAYNTER.

### **53-3 BUSINESS LAW II**

*Curriculum: V  
Fourth year, second semester*

*Preparation: —  
Three hours per week*

Corporation law is given special emphasis in this course. Other things considered are as follows: partnership, sales of personal property, conditional sales, bailment, guarantee and suretyship, mortgages, real property, landlord and tenant, taxes, and insurance.

MR. PAYNTER.

### **54-2 ECONOMIC GEOGRAPHY**

*Curriculum: V  
Second year, first semester*

*Preparation: —  
Two hours per week*

This course gives a foundation for the study of Foreign Trade, Marketing, and Transportation. It deals with the

## NORTHEASTERN UNIVERSITY

regions and methods of production of food stuffs and raw materials, the location of our principal industries, the processes of manufacture, and the world's routes.

MR. PAYNTER.

### 54-3 MARKETING

<i>Curriculum: V</i>	<i>Preparation: —</i>
<i>Third year, first semester</i>	<i>Three hours per week</i>

This course deals primarily with the methods of marketing the different classes of consumers' goods—convenience, shopping, specialty—and with the methods of marketing industrial goods. Such topics as buying motives, sales force, advertising, stock turn, and price policies are also considered.

MR. PAYNTER.

### 54-7 FOREIGN TRADE

<i>Curriculum: V</i>	<i>Preparation: —</i>
<i>Second year, second semester</i>	<i>Two hours per week</i>

The purpose of this course is to familiarize the student with the foreign markets, the methods used in securing trade information, the commercial policies of foreign countries, the importing and exporting machinery, both governmental and private, the technique of foreign trade, and trade regulations.

MR. PAYNTER.

### 54-8 TRANSPORTATION

<i>Curriculum: V</i>	<i>Preparation: —</i>
<i>Third year, second semester</i>	<i>Three hours per week</i>

The aim here is to give the student a knowledge of the theoretical and practical side of the railroad business. The following things are considered: The theory of rate making, rate classification, the rate structure and rate districts, and such problems as personal and local discrimination, demurrage, organization, financing and reorganization of railroads.

MR. PAYNTER.

### 54-9 SALESMANSHIP

<i>Curriculum: V</i>	<i>Preparation: —</i>
<i>Third year, second semester</i>	<i>Three hours per week</i>

This course deals with the art of salesmanship, which includes a consideration of such matters as the qualification necessary for successful salesmanship, preparation or selling talk, the approach, and the interview. Other things studied are the characteristics of good salesmen, their training and their compensation.

PROFESSOR ———



## SCHOOL OF ENGINEERING

### 5-1 AMERICAN ECONOMIC HISTORY

*Curriculum: V*  
*Both semesters*

*Preparation: —*  
*Two hours per week*

The purpose of this course is to give a general survey of the industrial and agricultural history of the United States from colonial times to the present. Such topics as tariff, finance, labor movements, industrial revolution, transportation, and wars are given detailed study.

MR. PAYNTER.

### 5-2 INSURANCE

*Curriculum: V*  
*First year, first semester*

*Preparation: —*  
*Three hours per week*

The object of this course is to give the students a knowledge of the basic principles of Insurance and to show them the benefits to be derived from the different classes of insurance. Detailed consideration is given to such topics as types of policies, types of organizations, premiums, reserves, dividends, and insurable interest.

MR. PAYNTER.

# NORTHEASTERN UNIVERSITY

## COURSES OF INSTRUCTION

No.	SUBJECT	Curriculum	Year
010-1	English . . . . .	All	1
010-2	Literature I . . . . .	Full-time	2
010-3	Literature II . . . . .	Full-time	2
010-4	Literature III . . . . .	Full-time	2
010-5	Public Speaking I . . . . .	Full-time	3
010-6	Public Speaking II . . . . .	Full-time	3
010-7	Public Speaking III . . . . .	Full-time	3
011-1	German . . . . .	IV	2
011-2	German . . . . .	IV	3
012-1	History of Science . . . . .	I, II, III, V	1
012-2	Modern History I . . . . .	Full-time	2
012-3	Modern History II . . . . .	Full-time	2
012-3a	Modern History III . . . . .	Full-time	2
013-1	Government I . . . . .	Full-time	2
013-1a	Government II . . . . .	Full-time	2
013-1b	Government III . . . . .	Full-time	2
*014-1	Economics I . . . . .	All	3
*014-1a	Economics II . . . . .	All	3
014-2	Sociology I . . . . .	Full-time	3
014-3	Sociology II . . . . .	Full-time	3
014-3a	Sociology III . . . . .	Full-time	3
014-4	Psychology I . . . . .	Full-time V	2, 4
014-4a	Psychology II . . . . .	Full-time V	2, 4
014-4b	Psychology III . . . . .	Full-time	2
014-5	Outline of Ethics I . . . . .	Full-time	3
014-5a	Outline of Ethics II . . . . .	Full-time	3
014-5b	Outline of Ethics III . . . . .	Full-time	3
014-8	Modern Social Problems I . . . . .	Full-time	3
014-8a	Modern Social Problems II . . . . .	Full-time	3
014-8b	Modern Social Problems III . . . . .	Full-time	3
020-1	College Algebra . . . . .	All	1
021-1	Trigonometry . . . . .	All	1
022-1	Analytic Geometry . . . . .	All	1
023-1	Differential Calculus . . . . .	All	2
023-2	Integral Calculus . . . . .	All	2
030-1	Physics . . . . .	All	1
031-1	Physics . . . . .	All	1
032-1	Light . . . . .	All	2
033-1	Heat . . . . .	All	2
034-1	Physics Laboratory . . . . .	All	1
034-2	Physics Laboratory . . . . .	All	2
034-3	Physics Laboratory . . . . .	All	2
041-1	Mechanical Drawing . . . . .	All	1
041-2	Mechanical Drawing . . . . .	I, IV, V	1
041-3	Mechanical Drawing . . . . .	II, III	1
042-3	Machine Drawing . . . . .	II	2
042-5	Engineering Drawing . . . . .	III	2
042-6	Engineering Drawing . . . . .	IV, V	2
043-1	Descriptive Geometry . . . . .	I, II, III	1
044-2	Mechanism . . . . .	II	2
044-3	Mechanism . . . . .	II	2
050-1	Engineering Conference . . . . .	All	3
050-2	Engineering Conference . . . . .	All	4
052-1	Thesis . . . . .	All	4
060-1	Physical Training . . . . .	All	1
11-1	Surveying . . . . .	I	1
11-2	Surveying . . . . .	I	1
11-3	Surveying, Field and Plotting . . . . .	I	1
11-4	Surveying, Field and Plotting . . . . .	I	1
11-5	Surveying . . . . .	I	2
11-6	Surveying, Field and Plotting . . . . .	I	2
11-7	Surveying . . . . .	V	1
12-1	Railroad Surveying . . . . .	I	2
12-2	Railroad Surveying, Field and Plotting . . . . .	I	2
12-3	Railroad Engineering . . . . .	I	3

\* Curriculum V, second year.

# SCHOOL OF ENGINEERING

## COURSES OF INSTRUCTION

No.	SUBJECT	Curriculum	Year
12-4	Railroad Engineering, Field and Plotting..	I	3
13-1	Hydraulics .....	I, II, V	3
13-3	Hydraulics .....	III, IV	3
14-1	Theory of Structures .....	I	3
14-3	Engineering Structures .....	I	4
14-5	Structural Drawing .....	I	3
14-6	Structural Drawing .....	I	3
14-7	Structural Design .....	I	4
14-8	Structural Design .....	I	4
15-1	Concrete .....	I	4
15-2	Concrete Design .....	I	4
15-3	Concrete .....	II	4
16-1	Materials .....	I, II, V	4
16-2	Testing Materials Laboratory .....	I, V	3
16-3	Foundations .....	I	4
16-4	Geology .....	I	3
17-1	Highway Engineering .....	I	4
21-1	Applied Mechanics (Statics) .....	All	2
21-2	Applied Mechanics (Kinetics) .....	All	2
21-3	Strength of Materials .....	I, II	3
21-4	Strength of Materials .....	III, IV, V	3
22-1	Graphical Analysis .....	II	3
22-2	Machine Design .....	II	3
22-3	Machine Design .....	II	4
22-4	Machine Design .....	II	4
22-5	Mechanisms of Machines .....	II	3
23-1	Heat Engineering .....	II	3
23-3	Heat Engineering .....	I, IV, V	3
23-4	Steam Turbines .....	II	4
23-5	Heat Engineering .....	II	4
23-7	Heat Engineering .....	II	3
24-1	Production Engineering .....	II	1
24-3	Power Plant Equipment .....	II, V	3
24-4	Power Plant Engineering .....	II	4
24-6	Standard Eng. Products and Processes .....	V	4
25-1	Industrial Plants .....	II	4
26-1	Engineering Laboratory .....	II	3
26-2	Engineering Laboratory .....	II	4
26-3	Engineering Laboratory .....	II	4
26-6	Engineering Laboratory .....	II, III	4
30-1	Applied Electricity I .....	I, II, IV, V	2
30-3	Applied Electricity II .....	I, II, IV, V	2
30-4	Applied Electricity Laboratory .....	I, II	2
32-1	Electrical Engineering I .....	III	1
32-3	Electrical Engineering II .....	III	2
32-4	Electrical Engineering II Laboratory .....	III	2
32-6	Electrical Engineering III Laboratory .....	III	3
32-7	Electrical Engineering III .....	III	3
32-8	Electrical Engineering IV Laboratory .....	III	4
32-9	Electrical Engineering IV .....	III	4
33-1	Electrical Measurements .....	III	3
33-2	Electrical Measurements Laboratory .....	III	3
33-4	Advanced Standardizing Laboratory .....	III	4
34-1	Advanced Engineering V, Option A .....	III	4
34-1b	Advanced Electricity V, Option B .....	III	4
35-1	Advanced Electricity .....	III	4
40-1	Inorganic Chemistry .....	II, III, V	1
40-1a	Inorganic Chemistry .....	I	3
41-1	Inorganic Chemistry .....	IV	1
41-2	Inorganic Chemistry Laboratory .....	IV	1
42-1	Qualitative Analysis .....	IV	1
42-2	Qualitative Analysis Laboratory .....	IV	1
43-1	Quantitative Analysis .....	IV	2
43-2	Quantitative Analysis Laboratory .....	IV	2
44-1	Technical Analysis .....	IV	3

# NORTHEASTERN UNIVERSITY

## COURSES OF INSTRUCTION

No.	SUBJECT	Curriculum	Year
44-2	Technical Analysis Laboratory.....	IV	3
44-3	Technical Analysis.....	IV	3
45-1	Organic Chemistry.....	IV	3
45-2	Organic Chemistry Laboratory.....	IV	3
45-3	Organic Chemistry.....	IV	4
45-4	Organic Chemistry Laboratory.....	IV	4
46-1	Chemical Engineering.....	IV	3
46-3	Chemical Engineering.....	IV	4
47-1	Industrial Chemistry.....	IV	4
47-2	Industrial Chemistry Laboratory.....	IV	4
48-1	Physical Chemistry.....	IV	4
50-1	Industrial Organization.....	V	3
50-2	Industrial Finance.....	V	3
50-6	Business Administration.....	V	4
50-8	Business Administration I.....	Full-time	3
50-9	Business Administration II.....	Full-time	3
50-9a	Business Administration III.....	Full-time	3
50-11	Business Principles I.....	Full-time	2
50-11a	Business Principles II.....	Full-time	2
50-11b	Business Principles III.....	Full-time	2
51-3	Elements of Accounting.....	V	3
51-5	Labor Problems.....	V	4
51-6	Industrial Problems.....	V	4
51-7	Personnel Administration.....	V	4
51-8	Psychology.....	V	4
52-2	Money and Banking I.....	Full-time	2
52-2a	Money and Banking II.....	Full-time	2
52-2b	Money and Banking III.....	Full-time	2
52-2c	Money and Banking.....	V	3
53-2	Business Law I.....	Full-time	3
53-2a	Business Law II.....	Full-time	3
53-2b	Business Law III.....	Full-time	3
53-3	Business Law I and II.....	V	4
54-2	Economic Geography.....	V	2
54-3	Marketing.....	V	3
54-7	Foreign Trade.....	V	2
54-8	Transportation.....	V	3
54-9	Salesmanship.....	V	3
55-1	American Economic History.....	V	1
55-2	Insurance.....	V	1

# SCHOOL OF ENGINEERING

## THESES

### CLASS OF 1925

ABRAMS, JULIUS (with N. Tucker) Elimination of Grade Crossings at Dover, Massachusetts	<i>Civil Engineering</i>
AYER, RAYMOND B. (with H. B. Foster) High Frequency Laboratory Oscillator	<i>Electrical Engineering</i>
AYLES, VERNON M. (with N. E. Tucker) The Elimination of a Grade Crossing	<i>Civil Engineering</i>
BACON, ROBERT E. (with M. A. French) The Design of an Alternating Current Transformer Substation	<i>Electrical Engineering</i>
BARNWELL, ARTHUR W. (with G. H. Sheridan) An Investigation in Power Plant Design	<i>Mechanical Engineering</i>
BARATTA, EDMUND A. (with G. E. Bertini) Land Court	<i>Civil Engineering</i>
BARKER, EDWARD H. (with R. N. Clerke & E. G. Crockett) Transient Electric Phenomena	<i>Electrical Engineering</i>
BARNETT, STEWART K. The Design of a Hydro-Electric Plant in Sutton, Massachusetts	<i>Civil Engineering</i>
BARTLETT, LOTHROP B. A Study of the Pumping of Paper Stuff in a Paper Mill	<i>Chemical Engineering</i>
BARTON, KENNETH L. (with H. A. Buck) The Design of a Concrete Dam	<i>Civil Engineering</i>
BERTINI, GEORGE E. (with E. A. Baratta) Land Court	<i>Civil Engineering</i>
BISSETT, JOHN E. (with W. F. Maier) Automatic Reclosing Service for Oil Cir- cuit Breakers	<i>Electrical Engineering</i>
BLODGETT, NEWTON K. (with W. A. Broadley) An Investigation of Current Transformer	<i>Electrical Engineering</i>
BLUEMER, EDWIN F. (with E. E. Haskins) Investigation and Possible Improvement of the Heating System of the International Engineering Works	<i>Mechanical Engineering</i>
BODEN, ARTHUR T. (with G. J. Katranis) The Distortion of Voltage Wave Form on a Transmission Line	<i>Electrical Engineering</i>
BOWERS, MOSES L. Design of Reinforced Concrete Garage	<i>Civil Engineering</i>
BOWIE, JOHN H. (with J. E. Macaulay) Profile and Layout of a Proposed Highway	<i>Civil Engineering</i>
BOYD, RONALD A. (with C. F. Hedlund) An Investigation of the Thermostatic Con- trol of Electric Flatirons	<i>Electrical Engineering</i>

## NORTHEASTERN UNIVERSITY

BRAY, WESLEY R. (with W. H. Connor) Winthrop Parkway Extension	<i>Civil Engineering</i>
BRADBURY, ROLFE C. A Study of the Manufacture of Alcohols from Petroleum Waste Still Gases	<i>Chemical Engineering</i>
BROADLEY, WILLIAM A. (with N. K. Blodgett) An Investigation of Current Transformers	<i>Electrical Engineering</i>
BUCK, HAROLD A. (with K. L. Barton) The Design of a Concrete Dam	<i>Civil Engineering</i>
CARLSON, ELMER T. (with J. B. Mahoney) Some Aspects of Artificial Daylight	<i>Electrical Engineering</i>
CARSWELL, ARCHIBALD A. (with C. B. Emery) Investigations for a Subway System in Portland, Maine	<i>Civil Engineering</i>
CARTER, JOHN C. (with C. L. Hamilton) The Design of a Homopolar Generator	<i>Electrical Engineering</i>
CLARK, RAYMOND F. (with C. N. Stevens) The Effect of Time on the Dielectric Strength of Insulating Oil	<i>Electrical Engineering</i>
CLERKE, PHILIP N. (with E. H. Barker & E. G. Crockett) Transient Electric Phenomena	<i>Electrical Engineering</i>
COOKE, JOSEPH W. (with W. M. Hiltz, G. I. Roberts & R. L. Nolf) Comparison of Cost of Supplying Power to the Electrical Laboratory by the Pres- ent System, the Proposed Diesel, and the Edison Sources	<i>Electrical Engineering</i>
CHRISTENSON, EDWARD R. (with G. H. Me- serve, Jr.) The Design of a Concrete Slab Bridge in the city of Medford, Massachusetts	<i>Civil Engineering</i>
CONNOR, WILBERT H. (with W. R. Bray) Winthrop Parkway Extension	<i>Civil Engineering</i>
CORLISS, THEODORE A. (with C. A. Sibley) The Analysis of a Flue System in a Smel- ter Plant	<i>Mechanical Engineering</i>
CRAGIN, DONALD G. (with R. P. Locke) Value and Place of House Organs in In- dustry	<i>Mechanical Engineering</i>
CRAMB, LESTER P. (with E. J. Perkins) The Variation in Operation of Induction Relays with Change of Wave Form	<i>Electrical Engineering</i>
CCOCKETT, ELTON G. (with E. H. Barker and P. N. Clerke) Transient Electric Phenomena	<i>Electrical Engineering</i>
CROSS, ROBERT C. (with F. Watson) The Design of an Industrial Plant for the Manufacture of Stillson Wrenches	<i>Mechanical Engineering</i>

## SCHOOL OF ENGINEERING

CUSHING, SAMUEL A. Planning a Modern Street Lighting System for a Small Town	<i>Electrical Engineering</i>
DANIELS, JAMES W. (with P. H. Sayward) Design of a Mechanical Refrigeration Unit	<i>Mechanical Engineering</i>
DAVEY, FRANK H. (with W. S. Gray) The Slip Indicator	<i>Electrical Engineering</i>
DAVIDSON, EDWIN F. (with H. W. Wheeler) A Study of the Variables Which Effect the Analytical Determination of the Volatile Matter in Coals and Cokes	<i>Chemical Engineering</i>
DAVIS, EDWARD L., JR. (with R. P. Kennedy) Strength Tests on Sand Found in Eastern Massachusetts	<i>Civil Engineering</i>
DAVIS, LEON P. The Design of a Reinforced Concrete Water Tank	<i>Civil Engineering</i>
DICKERMAN, RALPH T. (with W. F. Dunlap) The Elimination of a Grade Crossing	<i>Civil Engineering</i>
D'ITILIA, RAYMOND (with H. W. Morse & M. G. Pierce) The Grantham Hydro-Electric Development	<i>Electrical Engineering</i>
DOLAN, LAURENCE E. (with S. G. Thwing) The Resistivity of the Human Body Under Low Voltage Conditions	<i>Electrical Engineering</i>
DUNLAP, WILLIAM F. (with R. T. Dickerman) The Elimination of a Grade Crossing	<i>Civil Engineering</i>
EDWARDS, CARL W. (with J. H. McCool) Fire Alarm System of Boston, Massachusetts	<i>Electrical Engineering</i>
EMERY, CARL B. (with A. A. Carswell) Investigations for a Subway System in Portland, Maine	<i>Civil Engineering</i>
ERICSON, FREDERIC O. The Design of a Small Turbo-Pump	<i>Mechanical Engineering</i>
FAIRBROTHER, RUSSELL S. (with P. W. Hill) A Study of the Relation between Absorption from the Vapor Phase and from Solution by Silica Gel	<i>Chemical Engineering</i>
FLYNN, STEPHEN J. (with A. Poley & J. B. Ford) The Determination of Certain Characteristics of Types B and C Incandescent Lamps	<i>Electrical Engineering</i>
FORD, JAMES B. (with A. Poley & S. J. Flynn) The Determination of Certain Characteristics of Types B and C Incandescent Lamps	<i>Electrical Engineering</i>
FOSTER, H. BLISS (with R. B. Ayer) High Frequency Laboratory Oscillator	<i>Electrical Engineering</i>

## NORTHEASTERN UNIVERSITY

- |  |                                      |
|--|--------------------------------------|
| <p>FOWLER, EARL W. (with C. S. Williams)<br/>Transients Due to Direct Current Impulses in a Transmission Line</p>  | <p><i>Electrical Engineering</i></p> |
| <p>FRAZIER, STUART D.<br/>The Nitration and Sulphonation of Aromatic Compounds in the Presence of Mercury</p>  | <p><i>Chemical Engineering</i></p>   |
| <p>FRENCH, MURVIN A. (with R. C. Bacon)<br/>The Design of an Alternating Current Transformer Substation</p>  | <p><i>Electrical Engineering</i></p> |
| <p>FRYE, HAROLD B. (with A. C. Kennedy)<br/>Elimination of Traffic Congestion at Broadway and Revere Beach Boulevard, Revere</p>   | <p><i>Civil Engineering</i></p>      |
| <p>GRAY, WILBUR S. (with F. H. Davey)<br/>The Slip Indicator</p>   | <p><i>Electrical Engineering</i></p> |
| <p>HACKETT, JAMES D. (with G. Landy)<br/>The Calibration of a Selenium Cell for Use in Light Measurement</p>   | <p><i>Electrical Engineering</i></p> |
| <p>HAMILTON, CARROLL L. (with J. C. Carter)<br/>The Design of a Homopolar Generator</p>  | <p><i>Electrical Engineering</i></p> |
| <p>HANNABLE, DANIEL W.<br/>The Design of an Optical Indicator</p>  | <p><i>Mechanical Engineering</i></p> |
| <p>HARRIS, HENRY S.<br/>Continuous Basic Dyeing</p>  | <p><i>Chemical Engineering</i></p>   |
| <p>HASKINS, ELMER E. (with E. F. Bluemer)<br/>Investigation and Possible Improvement of the Heating System of the International Engineering Works</p>  | <p><i>Mechanical Engineering</i></p> |
| <p>HEDLUND, C. FREDERIC (with R. A. Boyd)<br/>An Investigation of the Thermostatic Control of Electric Flatirons</p>   | <p><i>Electrical Engineering</i></p> |
| <p>HILL, PRESTON W. (with R. S. Fairbrother)<br/>A Study of the Relation between Absorption from the Vapor Phase and from Solution by Silica Gel</p>   | <p><i>Chemical Engineering</i></p>   |
| <p>HILTZ, WALTER M. (with G. I. Roberts, J. W. Cooke &amp; R. L. Nolf)<br/>Comparison of Cost of Supplying Power to the Electric Laboratory by the Present System, the Proposed Diesel, and the Edison Sources</p> | <p><i>Electrical Engineering</i></p> |
| <p>HINCKLEY, HERBERT P. (with C. W. Westchrob)<br/>Design of a Plant for the Manufacture of Porous Alum</p>  | <p><i>Mechanical Engineering</i></p> |
| <p>JOHNSON, THEODORE A. (with E. M. Malloch)<br/>Relocation and construction of a Crossing over the Charles River in Newton, Massachusetts</p>   | <p><i>Civil Engineering</i></p>      |



## SCHOOL OF ENGINEERING

- |  |                               |
|--|-------------------------------|
| ONES, HENRY C., JR. (with G. L. Ziegler)<br>The Design of an Ideal Stores System and Store Room  | <i>Mechanical Engineering</i> |
| ATRANIS, GEORGE J. (with A. T. Boden)<br>The Distortion of Voltage Wave Form on a Transmission Line  | <i>Electrical Engineering</i> |
| ATZIFF, JULIUS (with W. M. Lauretzen)<br>The Study of the Effect on Current Efficiency with a Varying Voltage at a Constant Flow of Caustic and with a Varying Flow at a Constant Voltage  | <i>Chemical Engineering</i>   |
| ENNEDY, AUGUSTUS C. (with H. B. Frye)<br>Elimination of Traffic Congestion at Broadway and Revere Beach Boulevard, Revere  | <i>Civil Engineering</i>      |
| ENNEDY, ROBERT P. (with E. L. Davis, Jr.)<br>Strength Tests on Sand Found in Eastern Massachusetts   | <i>Civil Engineering</i>      |
| EVILLE, LEO A.<br>The Design of a Steel Frame for a Ten Story Office Building  | <i>Civil Engineering</i>      |
| IMBALL, CARLETON B. (with W. E. Ruether)<br>A Study of the Effect of Frequency upon the Capacity, Reactance, Charging Current and Dielectric Loss in a Lead Covered Transmission Cable     | <i>Electrical Engineering</i> |
| IMBALL, DONALD S. (with R. C. Lawton)<br>Advantages Gained by Complete Combustion in an Internal Combustion Gas Engine   | <i>Mechanical Engineering</i> |
| ING, ARTHUR M. (with B. C. Parker)<br>Redesign of a Highway Underpass in Medway, Massachusetts   | <i>Civil Engineering</i>      |
| ROHN, BERTIL W. (with W. A. Mailhot & E. C. Newton)<br>Potential Phase Shifters  | <i>Electrical Engineering</i> |
| ANDY, GEORGE (with J. D. Hackett)<br>The Calibration of a Selenium Cell for Use in Light Measurement   | <i>Electrical Engineering</i> |
| AURENTZEN, WALTER M. (with J. Katziff)<br>The Study of the Effect on Current Efficiency with a Varying Voltage at a Constant Flow of Caustic and with a Varying Flow at a Constant Voltage | <i>Chemical Engineering</i>   |
| AVOIE, STEPHEN D. (with A. H. Rogers)<br>Quartz Piezo-Electric Crystals  | <i>Electrical Engineering</i> |
| AWTON, ROBERT C. (with D. S. Kimball)<br>Advantages Gained by Complete Combustion in an Internal Combustion Gas Engine   | <i>Mechanical Engineering</i> |
| LACY, EUGENE S.<br>Redesign of Steel Plant   | <i>Mechanical Engineering</i> |

# NORTHEASTERN UNIVERSITY

LESSARD, THEODORE T. (with W. G. Stephenson)	<i>Civil Engineer</i>
Ice Storage Plant Design	
LOCKE, ROGER P. (with D. G. Cragin)	<i>Mechanical Engineer</i>
Value and Place of House Organs in Industry	
LYNCH, THOMAS J. (with C. V. McGuerty)	<i>Mechanical Engineer</i>
The Design of a Heating System for Modern Elementary Schoolhouse	
MABEY, MELVIN J. (with F. P. Stern)	<i>Civil Engineer</i>
Th Design of a Modern Reinforced Concrete Garage	
MACAULAY, JAMES E. (with J. H. Bowie)	<i>Civil Engineer</i>
Profile and Layout of a Proposed Highway	
MACCONNELL, NORMAN J. (with K. C. Young)	<i>Electrical Engineer</i>
Rectifiers of Alternating Currents	
MACKINNON, WEBER J.	<i>Electrical Engineer</i>
A Complete Discussion of the Industrial Fuel Oil Burners and an Attempt to Ignite Them with an Electric Spark	
MAHONEY, JAMES B. (with E. T. Carlson)	<i>Electrical Engineer</i>
Some Aspects of Artificial Daylight	
MAIER, WILLIAM F. (with J. E. Bissett)	<i>Electrical Engineer</i>
Automatic Reclosing Service for Oil Circuit Breakers	
MAILHOT, WILBROD A. (with E. C. Newton & B. W. Krohn)	<i>Electrical Engineer</i>
Potential Phase Shifters	
MALLOCH, ERNEST M. (with T. A. Johnson)	<i>Civil Engineer</i>
Relocation and Construction of a Crossing over the Charles River in Newton, Massachusetts	
MARTINELLI, HENRY C.	<i>Mechanical Engineer</i>
Design of a Household Refrigeration Machine	
MAURETTE, RENE G. (with O. D. Sharples)	<i>Electrical Engineer</i>
The Thermionic Amplifier	
MAXWELL, SHELMAN O. (with E. H. Thomson)	<i>Mechanical Engineer</i>
An Investigation of a Centrifugal Pump and Determination of its Characteristic Curves	
MCCOOLE, JAMES H. (with C. W. Edwards)	<i>Electrical Engineer</i>
Fire Alarm System of Boston, Massachusetts	
MCGUERTY, CHARLES V. (with T. J. Lynch)	<i>Mechanical Engineer</i>
The Design of a Heating System for Modern Elementary Schoolhouse	
MERRILL, LOUIS F.	<i>Mechanical Engineer</i>
The Design of an Internal Combustion Engine	

## SCHOOL OF ENGINEERING

RESERVE, GEORGE H. (with E. R. Christenson) The Design of a Concrete Slab Bridge in the city of Medford, Massachusetts	<i>Civil Engineering</i>
MORSE, HOWARD W. (with R. D'Italia & M. G. Pierce) The Grantham Hydro-Electric Develop- ment	<i>Electrical Engineering</i>
ELSON, CARL H. (with C. N. A. Richards) A Proposed Highway Layout	<i>Civil Engineering</i>
EWTON, ELMER C. (with W. A. Mailhot & B. W. Krohn) Potential Phase Shifters	<i>Electrical Engineering</i>
IECHCAY, FRANK K. (with W. H. Shields) Design of Reinforced Concrete Deck Gir- der Highway Bridge	<i>Civil Engineering</i>
GOLF, RALPH L. (with W. M. Hiltz, G. I. Roberts, & J. W. Cooke) Comparison of Cost of Supplying Power to the Electric Laboratory by the Present System, the Proposed Diesel, and the Edi- son Sources	<i>Electrical Engineering</i>
LEARY, LEO T. Design of a Concrete Garage	<i>Civil Engineering</i>
ARKER, BURTON C. (with A. M. King) Redesign of a Highway Underpass in Medway, Massachusetts	<i>Civil Engineering</i>
ERKINS, EUSTACE J. (with L. P. Cramb) The Variation in Operation of Induction Relays with Change of Wave Form	<i>Electrical Engineering</i>
IERCE, MELVIN G. (with R. D'Italia and H. W. Morse) The Grantham Hydro-Electric Develop- ment	<i>Electrical Engineering</i>
OLEY, ABRAHAM (with J. B. Ford & S. J. Flynn) The Determination of Certain Character- istics of Types B. and C. Incandescent Lamps	<i>Electrical Engineering</i>
PROPHET, ALTA E. (with R. W. Squier) The Reconstruction of Fall River Avenue and a Design for Concrete Highway Bridge over Rullins River, Seekonk, Mass.	<i>Civil Engineering</i>
LEAD, HERBERT C. A Study of the Effect of Reduced Pres- sure upon the Rate of Heat Transference from the Surface of a Bare Pipe	<i>Chemical Engineering</i>
LEED, KENNETH D. (with W. R. Seaman) The Design of a Heating System for a School Building	<i>Mechanical Engineering</i>

## NORTHEASTERN UNIVERSITY

- |  |                               |
|--|-------------------------------|
| REUTHER, WILLARD E. (with C. B. Kimball)<br>A Study of the Effect of Frequency upon<br>the Capacity, Reactance, Charging Current<br>and Dielectric Loss in a Lead Covered<br>Transmission Cable                        | <i>Electrical Engineering</i> |
| RICHARDS, CHARLES N. A. (with C. H. Nelson)<br>A Proposed Highway Layout   | <i>Civil Engineering</i>      |
| ROBERTS, GEORGE I. (with J. W. Cooke, W. M.<br>Hiltz, & R. L. Nolf)<br>Comparison of Cost of Supplying Power<br>to the Electrical Laboratory by the Present<br>System the Proposed Diesel, and the Edi-<br>son Sources | <i>Electrical Engineering</i> |
| ROCCHI, FRANK<br>Relief for Traffic Congestion in Malden<br>and Everett  | <i>Civil Engineering</i>      |
| ROGERS, ALLAN H. (with S. D. Lavoie)<br>Quartz Piezo-Electric Crystals   | <i>Electrical Engineering</i> |
| RUBIN, MORRIS<br>Design of Streets, Lots and Sewers of a<br>section of Belmont, Massachusetts  | <i>Civil Engineering</i>      |
| SAYWARD, PAUL H. (with J. W. Daniels)<br>Design of a Mechanical Refrigeration Unit   | <i>Mechanical Engineering</i> |
| SCHNEIDER, ARTHUR E.<br>A Study of the Preparation of a Non-<br>Oxidizing Sterling Silver  | <i>Chemical Engineering</i>   |
| SEAMAN, WALTER R. (with K. D. Reed)<br>The Design of a Heating System for a<br>School Building   | <i>Mechanical Engineering</i> |
| SHAPIRO, DAVID (with A. M. Zak)<br>Proposed Road & Underpass in the Town<br>of Wellesley, Mass.  | <i>Civil Engineering</i>      |
| SHARPLES, OSWALD D. (with R. G. Maurette)<br>The Thermionic Amplifier  | <i>Electrical Engineering</i> |
| SHEA, ALBERT L.<br>Storeroom Layout and Material Control   | <i>Mechanical Engineering</i> |
| SHENK, NORMAN A. (with C. D. Shepherd)<br>The Abolition of the Grade Crossing in<br>West Medford, Mass.  | <i>Civil Engineering</i>      |
| SHEPHERD, CHESTER D. (with N. A. Shenk)<br>The Abolition of the Grade Crossing in<br>West Medford, Mass.   | <i>Civil Engineering</i>      |
| SHERIDAN, GEORGE H. (with A. W. Banwell)<br>An Investigation in Power Plant Design   | <i>Mechanical Engineering</i> |
| SHIELDS, WILFRED H. (with F. K. Neichay)<br>Design of Reinforced Concrete Deck Gir-<br>der Highway Bridge  | <i>Civil Engineering</i>      |
| SIBLEY, CLIFTON A. (with T. A. Corliss)<br>The Analysis of a Flue System in a Smel-<br>ter Plant   | <i>Mechanical Engineering</i> |

# SCHOOL OF ENGINEERING

MILEY, KENNETH S. The Catalysis of the Reaction Between Benzoyl Chloride and Ethylene Gas	<i>Chemical Engineering</i>
QUIER, ROGER W. (with A. E. Prophet) The Reconstruction of Fall River Avenue and a Design for Concrete Highway Bridge over Rullins River, Seekonk, Mass.	<i>Civil Engineering</i>
EPHENSON, WILLIAM G. (with T. T. Les- sard) Ice Storage Plant Design	<i>Civil Engineering</i>
ERN, FREDERICK P. (with M. J. Mabey) The Design of a Modern Reinforced Con- crete Garage	<i>Civil Engineering</i>
EVENS, CHARLES N. (with R. F. Clark) The Effect of Time on the Dielectric Strength of Insulating Oil	<i>Electrical Engineering</i>
WIFT, RALPH E. A Heating and Ventilating System for Large Buildings	<i>Mechanical Engineering</i>
OMSON, EARL H. (with S. O. Maxwell) An Investigation of a Centrifugal Pump and Determination of its Characteristic Curves	<i>Mechanical Engineering</i>
WING, STANLEY G. (with L. E. Dolan) The Resistivity of the Human Body Un- der Low Voltage Conditions	<i>Electrical Engineering</i>
TCOMB, OLIVER S. The Design of a Cooling Tower	<i>Mechanical Engineering</i>
UCKER, NATHAN (with J. Abrams) Elimination of Grade Crossings at Dover, Massachusetts	<i>Civil Engineering</i>
UCKER, NEWTON E. (with V. M. Ayles) The Elimination of a Grade Crossing	<i>Civil Engineering</i>
SNICK, ALEXANDER The Layout and Equipment of a Modern Abattoir	<i>Mechanical Engineering</i>
ALDRON, F. ELLIOTT (with W. H. Young) An Electric Water Pumping Installation	<i>Electrical Engineering</i>
ATSON, FRANCIS (with R. C. Cross) The Design of an Industrial Plant for the Manufacture of Stillson Wrenches	<i>Mechanical Engineering</i>
ESCHROB, CHARLES W. (with H. Hinckley) Design of a Plant for the Manufacture of Porous Alum	<i>Mechanical Engineering</i>
HITE, WILLIAM C. The Electrical System of a Steam Trawler	<i>Electrical Engineering</i>
HITEHEAD, ARTHUR F. The Design of a Corner Staying Machine	<i>Mechanical Engineering</i>
ILLIAMS, CLIFTON S. (with E. W. Fowler) Transients Due to Direct Current Impulses in a Transmission Line	<i>Electrical Engineering</i>

## NORTHEASTERN UNIVERSITY

WILSON, DAVID C. An Investigation of the Characteristics of the Diesel Engine	<i>Mechanical Engineerin</i>
WHEELER, HAROLD W. (with E. F. Davidson) A Study of the Variables which Effect the Analytical Determination of the Volatile Matter in Coals and Cokes	<i>Chemical Engineerin</i>
WYNER, HENRY I. The Hull, Quincy Vehicular Tunnel	<i>Civil Engineerin</i>
YOUNG, KENNETH C. (with N. J. MacConnell) Rectifiers of Alternating Currents	<i>Electrical Engineerin</i>
YOUNG, WALTER H. (with F. E. Waldron) An Electric Water Pumping Installation	<i>Electrical Engineerin</i>
ZAK, ALEXANDER M. (with D. Shapiro) Proposed Road and Underpass in the Town of Wellesley, Mass.	<i>Civil Engineerin</i>
ZIEGLER, GEORGE L. (with H. C. Jones, Jr.) The Design of an Ideal Stores System and Store Room	<i>Mechanical Engineerin</i>

# SCHOOL OF ENGINEERING

## REGISTRY OF STUDENTS, 1926-1927

NAME	DEPT.	YEAR	HOME ADDRESS
Abbott, Charles F.	Ch.E.	1928	Hingham
Adel, George W.	E.E.	1929	Salem, N. J.
Abrams, William J., Jr.	C.E.	1928	New Bedford
Alams, Raymond T.	C.E.	1928	Quincy
Allen, Webster P.	C.E.	1929	Abington
Amurkis, John	M.E.	1929	Arlington
Amern, John F.	E.E.	1929	Peabody
Amey, Sydney B.	C.E.	1929	Plymouth
Ameson, Chester A.	Adm.E.	1929	Beverly
Amcock, Thomas R.	C.E.	1928	Waltham
Amden, Edgar O.	E.E.	1926	East Saugus
Amexander, William T.	M.E.	1926	No. Harpswell, Maine
Amen, Charles E., Jr.	C.E.	1929	Shrewsbury
Amen, George M.	E.E.	1927	West Springfield
Amen, Gibbert	E.E.	1929	Bethel, Conn.
Amen, Howard F.	C.E.	1929	Boston
Amen, Maurice F.	Adm.E.	1928	Bridgeport, Conn.
Amen, Northrup B.	C.E.	1929	Danvers
Amen, Whitemen E.	E.E.	1928	Framingham
Anderson, Arthur G.	Ch.E.	1929	Mamaroneck, N. Y.
Anderson, John A.	M.E.	1929	Concord Jct.
Anderson, John E.	C.E.	1929	Hartford, Conn.
Anderson, Robert E.	C.E.	1929	Wollaston
Anderson, Stanley G.	E.E.	1929	So. Hamilton
Andrews, Harrison	M.E.	1929	Braintree
Anteski, Michael	Adm.E.	1929	Brockton
Antostole, Sotire	M.E.	1929	Boston
Appleton, Daniel F.	E.E.	1929	Scituate
Archer, William B.	M.E.	1929	Tenants Harbor, Me.
Atkins, George R.	Ch.E.	1928	Poultney, Vt.
Atkinson, Edgar O.	C.E.	1929	Wellesley
Avedisian, Avedis M.	E.E.	1929	Newburyport
Averill, Eugene A.	Ch.E.	1928	Milford
Avery, Lloyd D.	E.E.	1927	Webster
Ayles, Vernon M.	C.E.	1926	Newton Highlands
Azarian, Hygus	C.E.	1928	Lawrence
Bacheller, Wesley M.	Ch.E.	1929	East Lynn
Bacon, Dana H.	E.E.	1926	East Bridgewater
Badger, William L.	Ch.E.	1926	Lynn
Baggish, Philip F.	Ch.E.	1929	Hartford, Conn.
Bailey, Dow M.	Ch.E.	1929	North Woburn
Bailey, Lewis H. Jr.	E.E.	1929	Newton Centre
Bailey, Walter C.	C.E.	1926	Ipswich
Bakalar, Arthur B.	Ch.E.	1926	Chelsea
Baker, Francis A.	E.E.	1929	Westdale
Baker, Henry A.	M.E.	1927	Whitman
Balentine, Albert E.	Adm.E.	1929	Wollaston
Bamber, John E.	C.E.	1928	Fall River
Bamford, Wilson A.	E.E.	1929	Springfield, Vt.
Bancroft, Herman L.	E.E.	1929	New Haven, Conn.

# NORTHEASTERN UNIVERSITY

NAME	DEPT.	YEAR	HOME ADDRESS
Barnes, Julius L.	M.E.	1926	Allston
Barrett, Josiah S.	E.E.	1929	Nantucket
Barrett, Robert E.	E.E.	1927	Readville
Barrett, Sidney R.	E.E.	1927	Boston
Barrows, Bertram W.	Ch.E.	1928	Quincy
Barstow, Harry L.	C.E.	1929	Belmont
Bartlett, George W.	Ch.E.	1928	Newburyport
Bass, Louis	Ch.E.	1929	Lynn
Batchelder, Ralph F.	M.E.	1929	No. Reading
Bates, Allen W.	E.E.	1926	Cohasset
Bates, L. Robert	Ch.E.	1928	E. Somerville
Baule, James J.	C.E.	1929	Roxbury Crossing
Baxter, Herbert C.	M.E.	1928	Sharon
Bazley, William J. Jr.	E.E.	1929	Ansonia, Conn.
Bearse, Edwin H.	E.E.	1928	Providence, R. I.
Beaver, Francis L.	Ch.E.	1929	West Somerville
Beedle, Robert H.	E.E.	1929	Allston
Bellamy, Phillip	E.E.	1929	New Bedford
Bemis, Norman C.	M.E.	1927	Gleasondale
Bemis, Watson A.	Ch.E.	1928	Revere
Bengston, Nils B.	M.E.	1926	Everett
Benjamin, George C.	C.E.	1926	Melrose Highlands
Bennett, Leon S.	E.E.	1928	South Weymouth
Bennett, William S.	E.E.	1928	Jamaica Plain
Benoit, Everett C.	E.E.	1926	Pawtucket, R. I.
Benson, John D.	C.E.	1927	South Boston
Benson, John L.	E.E.	1929	Dorchester
Berhmann, John S.	E.E.	1928	Easthampton
Bergquist, Fred	Ch.E.	1929	New Britain, Conn.
Berig, Leon	Ch.E.	1929	Allston
Berman, Hyman	Ch.E.	1928	Woburn
Bernard, Francis W.	E.E.	1929	Dorchester
Bernard, Peter A.	E.E.	1929	Howland, Me.
Bernklow, Fred A.	E.E.	1929	Thompson, Conn.
Berry, Harry D.	E.E.	1929	North Andover
Berry, James F.	C.E.	1926	Boston
Bertolami, Dante A.	Ch.E.	1929	Somerville
Bertollini, Alfio	C.E.	1929	Beverly
Bessey, Carlton E.	E.E.	1927	Somerville
Bickford, Chaloner L.	E.E.	1928	New Hampton, N. H.
Birkmaier, Waldo B.	C.E.	1927	Waltham
Birnie, William D. Jr.	E.E.	1928	Watertown
Birnie, Wilber J.	M.E.	1929	Watertown
Bishop, Kola	E.E.	1929	Hale, Me.
Black, Bernard D.	M.E.	1929	Springfield
Black, Charles H.	Ch.E.	1928	South Hanson
Blacker, Fred J.	M.E.	1926	Somerville
Blackstone, Harry W.	E.E.	1928	Allston
Blake, Rodney N.	M.E.	1929	Woburn
Blatchford, James W.	Ch.E.	1927	Gloucester
Blatchford, Laurence H.	M.E.	1926	Framingham
Blodgett, Newton K.	E.E.	1926	Colebrook, N. H.
Blomquist, Carl A.	M.E.	1929	Brockton



## SCHOOL OF ENGINEERING

NAME	DEPT.	YEAR	HOME ADDRESS
Blood, Charles E.	M.E.	1927	Taunton
Bloom, Maurice	C.E.	1927	Somerville
Bloom, Morris B.	C.E.	1929	Hartford, Conn.
Blumberg, Carlton J.	Ch.E.	1927	Gloucester
Blunda, Ignazio	C.E.	1926	East Boston
Boccaccio, Joseph A.	E.E.	1928	Holley, N. Y.
Bockstrom, Carl W.	Ch.E.	1927	Somerville
Bolton, John H.	Ch.E.	1928	Boston
Bonitto, Vincent H.	C.E.	1929	Boston
Bosher, William A.	Ch.E.	1928	Boston
Bosworth, Warren H.	Adm.E.	1928	North Attleboro
Botos, C. John	E.E.	1929	Lowell
Botsford, Franklin A.	C.E.	1927	PennYan, N. Y.
Botti, Alfred F.	E.E.	1929	Winthrop
Boucher, James N.	E.E.	1929	Chartley
Boulter, Clarence F.	C.E.	1928	Walpole
Bousefield, Weston A.	M.E.	1927	Wellesley
Bowen, Ernest C.	Ch.E.	1928	Medford
Bowker, Willard B.	C.E.	1929	Walpole
Bowse, John R.	E.E.	1928	Concord Jct.
Boyd, Harry R.	M.E.	1929	Danielson, Conn.
Boyden, Elwin C.	E.E.	1927	South Walpole
Bradbury, Lauris J.	E.E.	1928	Old Town, Me.
Bradstreet, Franklin H.	E.E.	1929	North Andover
Braica, Anthony A.	C.E.	1926	Springfield
Braun, Raymond W.	E.E.	1929	Montague City, Mass.
Breckenridge, Edwin C.	Ch.E.	1929	Williamsburg
Brieve, Augustine M.	E.E.	1927	Waterbury, Conn.
Brenan, Norman W.	E.E.	1929	Woburn
Brest, Bennett G.	E.E.	1929	Roxbury
Bretschneider, Max E.	E.E.	1927	Danielson, Conn.
Briggs, Leon R.	C.E.	1927	Adams
Britt, Francis V.	C.E.	1926	Cambridge
Brodrick, Newton T.	M.E.	1929	Newton
Brolin, Walter B.	E.E.	1927	Proctor, Vt.
Bronson, Donald I.	E.E.	1928	Winsted, Conn.
Brooks, Winston H.	C.E.	1928	Sanford, Me.
Brown, Chester A.	Ch.E.	1929	Woburn
Brown, Clifton D.	Ch.E.	1929	Hudson
Brown, G. Porter	Ch.E.	1926	Plymouth
Brown, John W.	E.E.	1929	Lewiston, Me.
Brown, Kenneth N.	Ch.E.	1929	Boston
Brown, Louis C.	Ch.E.	1927	Livermore Falls, Me.
Brown, Phillip K.	C.E.	1929	Keene, N. H.
Browning, Chester E.	C.E.	1928	Providence, R. I.
Bruce, Robert E.	E.E.	1929	Putnam, Conn.
Bruce, William H. Jr.	C.E.	1929	Sagamore
Brush, Milton R.	Ch.E.	1929	Winthrop
Brustin, Nathan	C.E.	1927	Malden
Bryant, Stanley W.	C.E.	1927	Allston
Buckingham, Merrit H.	E.E.	1929	Readville
Buckley, Arthur J.	E.E.	1927	Salem
Buckley, Cornelius J.	Ch.E.	1929	Salem

# NORTHEASTERN UNIVERSITY

NAME	DEPT.	YEAR	HOME ADDRESS
Buckley, George F.	C.E.	1929	Boston
Buckminster, Kenneth B.	Ch.E.	1929	Concord, N. H.
Bunker, Page S.	M.E.	1928	Boston
Bunting, Harry W.	Adm.E.	1929	Jamaica Plain
Burgess, Howard B.	E.E.	1929	Sagamore
Burke, George M.	M.E.	1926	Arlington
Burke, James L.	E.E.	1926	Everett
Burke, Royal G.	M.E.	1929	Westboro
Burkett, Frank E.	C.E.	1928	Camden, Maine
Burlingham, Raymond O.	Adm.E.	1929	Marblehead
Burrill, Harold A.	M.E.	1927	Swampscott
Burton, Harold L.	C.E.	1929	Boston
Bury, Albert W.	C.E.	1928	Passaic, N. J.
Bush, Gordon W.	M.E.	1929	New Britain, Conn.
Butler, Nelson R.	M.E.	1928	Melvin Village, N. H.
Caddy, George K.	Ch.E.	1928	Cliftondale
Caffrey, Richard D.	E.E.	1927	Rockport
Cairns, William R.	Adm.E.	1929	Boston
Call, Chester W.	E.E.	1927	Wollaston
Call, Irving H.	C.E.	1927	Wollaston
Callahan, Henry F.	E.E.	1926	Salem
Camelio, John F.	E.E.	1927	Walpole
Campbell, C. Clarence	E.E.	1926	Medford
Campbell, Elmer C.	Ch.E.	1929	Taunton
Campbell, Marvin O.	Adm.E.	1929	Somerville
Canner, William	Adm.E.	1929	South Boston
Cantley, James V.	E.E.	1927	Beverly
Caponigro, Chelsomino J.	C.E.	1929	East Boston
Carlson, Arthur E.	E.E.	1927	Worcester
Carlson, Henry N.	E.E.	1928	Quincy
Carlton, F. Tyler	C.E.	1926	Andover
Carman, Willard A.	E.E.	1926	Ayer
Carpenter, Donald W.	E.E.	1927	West Roxbury
Carpenter, Keith R.	C.E.	1929	Wayland, New York
Carr, Elton G.	E.E.	1927	Beverly
Carr, Forrest W.	Adm.E.	1929	Beverly
Carr, Russell S.	C.E.	1929	Beverly
Carrie, John	E.E.	1926	Roxbury
Carrier, Malcolm H.	E.E.	1927	New Milford, Conn.
Carroll, John T.	M.E.	1926	Watertown
Carroll, William H.	M.E.	1927	Hanover
Carty, Francis E.	E.E.	1929	Dorchester
Case, Robert W.	M.E.	1927	Unionville, Conn.
Casey, Joseph V.	E.E.	1929	Newburyport
Caswell, Emerson T.	Ch.E.	1929	Marblehead
Catanzaro, Antonio	E.E.	1929	Providence, R. I.
Chaisson, Joseph E.	Ch.E.	1929	Swampscott
Chalmers, Archibald C.	E.E.	1928	Brockton
Chapin, Robert C.	C.E.	1927	Cambridge
Chapin, William S.	C.E.	1927	Chicopee
Chapman, Stanley C.	M.E.	1928	Medford
Chase, Malcolm P.	E.E.	1929	West Falmouth
Chase, Russell C.	C.E.	1927	Stoneham

## SCHOOL OF ENGINEERING

NAME	DEPT.	YEAR	HOME ADDRESS
Cheney, Frank L.	C.E.	1927	Medfield
Chippendale, Daniel J.	E.E.	1929	Dorchester
Chisholm, Allan B.	E.E.	1929	North Dighton
Chmielewski, Frank	E.E.	1929	Morris Run, Penn.
Chute, Dudley H.	E.E.	1928	Lexington
Cignarella, John	E.E.	1929	E. Weymouth
Clancy, Thomas E.	E.E.	1929	Beverly
Clark, Clifford A.	E.E.	1929	Northampton
Clark, Edward A.	C.E.	1926	Northampton
Clark, John L.	E.E.	1927	Stoneham
Clark, John W.	M.E.	1928	Framingham
Clark, Laurence E.	Adm.E.	1928	Concord
Clark, Wayne E.	Adm.E.	1928	Natick
Clarke, Edwin L.	E.E.	1928	Medford
Clarke, Laurence R.	Ch.E.	1927	Cambridge
Clayman, Bernard	E.E.	1927	Dorchester
Cleveland, Raymond W.	E.E.	1929	Thomaston, Conn.
Cobb, Edwin B.	C.E.	1929	Norwood
Cobb, Lewis E.	E.E.	1926	West Medford
Cochrane, Earle S.	C.E.	1926	Cambridge
Coffin, Winthrop F.	E.E.	1929	Taunton
Coghlan, Edward M.	E.E.	1929	Milton
Cohen, Morris	C.E.	1926	Dorchester
Cohen, David	C.E.	1929	Roxbury
Colburn, Carlton B.	M.E.	1929	Brighton
Collins, Hubert M.	Adm.E.	1928	Rensselaer, N. Y.
Collins, Maurice B.	M.E.	1928	Houlton, Me.
Collins, William J.	E.E.	1926	Somerville
Collis, Leslie N.	C.E.	1929	Salisbury
Colvin, Arthur E.	C.E.	1929	Woburn
Commeau, Lawrence	E.E.	1928	Plymouth
Como, Edward W.	E.E.	1928	Gloucester
Comstock, Alvin F.	M.E.	1927	Devon, Conn.
Connell, John A.	E.E.	1928	Roslindale
Conquest, Charles W.	M.E.	1928	Fairhaven
Coogan, Charles H. Jr.	M.E.	1929	Brighton
Cook, Charles W.	Ch.E.	1927	Saugus
Cook, Herbert C.	C.E.	1928	Roxbury
Cook, Joseph C.	E.E.	1929	Everett
Copans, William J.	E.E.	1927	Lynn
Cornwell, Emdon C.	E.E.	1929	Gardner
Corrigan, James L.	E.E.	1929	Cambridge
Corsano, Nicholas A.	M.E.	1926	East Boston
Cotton, Philip S.	C.E.	1929	Worcester
Courtney, Harry G.	E.E.	1928	Dorchester
Cowhig, Walter W.	E.E.	1929	Brighton
Cowley, Charles J.	E.E.	1928	Roslindale
Cox, Henry F.	C.E.	1929	Somerville
Crabb, Charles R.	E.E.	1928	Dorchester
Crafts, Robert W.	Ch.E.	1929	Ashfield
Crane, Harold S.	E.E.	1928	Rockland
Cranouski, William J.	C.E.	1927	Poquonock, Conn.
Crawford, Albert	Ch.E.	1929	Newport, R. I.

# NORTHEASTERN UNIVERSITY

NAME	DEPT.	YEAR	HOME ADDRESS
Crawford, John L.	M.E.	1927	<i>Danvers</i>
Creedon, Timothy F.	C.E.	1929	<i>Charlestown</i>
Crocker, Franklin D.	E.E.	1929	<i>Foxboro</i>
Crosby, E. Keith	M.E.	1927	<i>Somerville</i>
Crosby, Richard W.	E.E.	1929	<i>West Medford</i>
Cuff, William R.	M.E.	1928	<i>South Braintree</i>
Cummings, Edwin L.	C.E.	1929	<i>Springfield</i>
Cunningham, James J.	M.E.	1927	<i>Salem</i>
Currie, William D.	Adm.E.	1929	<i>Watertown</i>
Currier, Gardner B.	C.E.	1928	<i>Winthrop</i>
Curtin, Carl L.	Adm.E.	1928	<i>Tyringham</i>
Cutts, Howard H.	Ch.E.	1928	<i>Roxbury</i>
Dahill, Edward E. Jr.	E.E.	1929	<i>Vineyard Haven</i>
Dahlquist, John W.	M.E.	1927	<i>Boston</i>
Daisy, Arthur D.	Ch.E.	1929	<i>Boston</i>
Darling, Lawrence W.	M.E.	1928	<i>Hudson</i>
Dasha, Laughton B.	E.E.	1929	<i>North Weymouth</i>
Daum, Martin	M.E.	1929	<i>Roxbury</i>
Davies, Hugh R.	E.E.	1929	<i>Rome, N. Y.</i>
Davis, Almon C.	C.E.	1929	<i>N. Springfield, Vt.</i>
Davis, Bradford	C.E.	1929	<i>Salem</i>
Davis, Herbert G.	C.E.	1928	<i>E. Braintree</i>
Davis, Peirce	E.E.	1927	<i>Taunton</i>
Davis, Walter G.	M.E.	1926	<i>Swampscott</i>
Davis, Winthrop M.	M.E.	1927	<i>Bridgeport, Conn.</i>
Day, C. Denson	M.E.	1926	<i>Taunton</i>
Day, Lewis F.	E.E.	1929	<i>South Hamilton</i>
Day, Marion W.	C.E.	1926	<i>Randolph, Vt.</i>
Day, Willard H.	C.E.	1927	<i>Randolph, Vt.</i>
Deacon, Malcolm E.	C.E.	1928	<i>Woburn</i>
DeBiasi, Charles P.	C.E.	1926	<i>Noank, Conn.</i>
DeBiasi, Domenic	E.E.	1928	<i>Boston</i>
Decato, Ernest J.	M.E.	1929	<i>Franklin, N. H.</i>
DeLaura, Edward	E.E.	1928	<i>Holley, N. Y.</i>
DeMarco, Michael	M.E.	1929	<i>Boston</i>
DeMerritt, John W.	E.E.	1928	<i>Exeter, N. H.</i>
Dennis, Frank L.	E.E.	1927	<i>Abington</i>
Dennis, Ralph L.	M.E.	1928	<i>Swampscott</i>
Dennis, Robert W.	E.E.	1929	<i>Abington</i>
Denoyers, Emil J.	M.E.	1928	<i>North Adams</i>
Deckmejian, Berj C.	Ch.E.	1929	<i>Montello</i>
Deschamps, Roland H.	M.E.	1927	<i>Salem</i>
Devorin, Harry	C.E.	1929	<i>Roxbury</i>
Dias, John L. Jr.	E.E.	1929	<i>Boston</i>
DiCicco, Ruzziero	M.E.	1926	<i>Concord</i>
Dick, Winfred O.	M.E.	1929	<i>Mystic, Conn.</i>
Dickson, John H.	E.E.	1929	<i>Cambridge</i>
Dietsch, Adolph J.	E.E.	1927	<i>Westwood</i>
Dill, E. Arnold	C.E.	1926	<i>Raynham Centre</i>
Dineen, John P.	M.E.	1929	<i>Montgomery, N. Y.</i>
Dingman, Frederick E.	C.E.	1927	<i>Sharon</i>
Dirks, Harold F.	M.E.	1927	<i>Danvers</i>
Doane, Reginald F.	C.E.	1929	<i>Athol</i>

## SCHOOL OF ENGINEERING

NAME	DEPT.	YEAR	HOME ADDRESS
Dombrosky, Francis J.	E.E.	1928	<i>Brockton</i>
Donick, Frank C.	M.E.	1926	<i>Mattapan</i>
Donnelly, James L.	E.E.	1927	<i>Boston</i>
Donnelly, Laurence P.	C.E.	1929	<i>Dorchester</i>
Doucette, T. E.	E.E.	1927	<i>Melrose</i>
Douglas, Richard A.	M.E.	1929	<i>Plymouth</i>
Douglass, Robert G.	E.E.	1928	<i>Wollaston</i>
Downey, William B.	Ch.E.	1929	<i>Wellesley</i>
Downing, William J.	E.E.	1929	<i>West Somerville</i>
Downs, Bernard I.	M.E.	1927	<i>Forestville, Conn.</i>
Doyle, William L.	E.E.	1929	<i>Boston</i>
Dreher, Gerald W.	C.E.	1929	<i>Dorchester</i>
Driscoll, Albert A.	M.E.	1929	<i>Hudson, N. Y.</i>
Drown, Winfield E.	Ch.E.	1929	<i>Melrose</i>
Dubois, Victor C.	Adm.E.	1929	<i>Brockton</i>
Duemmling, Frank C.	Ch.E.	1928	<i>Boston</i>
Duff, Orrin W.	C.E.	1929	<i>Newtonville</i>
Duffy, G. Richard	Ch.E.	1928	<i>Medford</i>
Duffy, John B.	E.E.	1929	<i>North Attleboro</i>
Dugan, Kenneth M.	Ch.E.	1928	<i>Boston</i>
Duncan, Harold E.	E.E.	1928	<i>Winthrop</i>
Dunn, Guilford T.	E.E.	1928	<i>Fitchburg</i>
Dunn, Theodore F.	M.E.	1928	<i>Charles River Village</i>
Dunnan, Kenneth M.	C.E.	1929	<i>Everett</i>
Duwart, Roger F.	C.E.	1928	<i>Gloucester</i>
Dyer, Charles M.	M.E.	1928	<i>Frammingham</i>
Dyer, Kenneth M.	M.E.	1929	<i>Medford Hillside</i>
Dyer, Simeon D.	E.E.	1928	<i>South Braintree</i>
Dyke, Milton F.	C.E.	1929	<i>Somerville</i>
Earle, Stanley	Ch.E.	1929	<i>Hopedale</i>
Edson, Carl R.	E.E.	1926	<i>Elmwood</i>
Edwards, Philip A.	C.E.	1929	<i>Providence, R. I.</i>
Eldridge, Frederick B.	E.E.	1928	<i>Johnstown, N. Y.</i>
Eldridge, Raymond E.	E.E.	1926	<i>Ashland</i>
Eldridge, Russell I.	E.E.	1927	<i>Concord</i>
Ellard, Walter B.	E.E.	1927	<i>Medford</i>
Ellingwood, Mallard E.	E.E.	1928	<i>Dorchester</i>
Elliott, Donald C.	M.E.	1926	<i>Danvers</i>
Elliott, Homer B.	E.E.	1927	<i>Needham</i>
Ellis, Earle L.	E.E.	1929	<i>Everett</i>
Ellis, Stanley W.	E.E.	1928	<i>Lowell</i>
Ellms, Gordon L.	C.E.	1927	<i>New Britain, Conn.</i>
Elwell, Maynard	E.E.	1926	<i>Dorchester</i>
Emerson, Wallace N.	C.E.	1928	<i>Thetford, Vt.</i>
Engdahl, Lawrence K.	C.E.	1927	<i>Roslindale</i>
Engstrom, Alph L. C.	M.E.	1929	<i>Attleboro</i>
Erickson, Robert	M.E.	1926	<i>Fitchburg</i>
Evans, Forrest J.	Adm.E.	1929	<i>Boston</i>
Everts, William J.	E.E.	1927	<i>New London, Conn.</i>
Faber, Roger N.	E.E.	1927	<i>Weston</i>
Fannoney, Khalil	M.E.	1929	<i>Boston</i>
Farmer, Earl L.	M.E.	1929	<i>Arlington</i>
Farmer, J. Woodruff	E.E.	1928	<i>Watertown</i>

# NORTHEASTERN UNIVERSITY

NAME	DEPT.	YEAR	HOME ADDRESS
Farr, Everett E.	E.E.	1929	Waitsfield, Vt.
Fay, J. Ernest	E.E.	1928	Waltham
Feldman, Paul C.	E.E.	1929	Roxbury
Fellows, Frank M. Jr.	Ch.E.	1929	Newton
Ferris, James E.	Ch.E.	1926	Mattapan
Ferrugia, Anthony	E.E.	1928	Fredonia, N. Y.
Fieber, Everett T.	C.E.	1929	New Britain, Conn.
Field, Gordon H.	C.E.	1929	Somerville
Field, Robert M. E.	M.E.	1929	Winthrop
Finegan, Joseph W.	M.E.	1929	Everett
Finkelstein, John J.	C.E.	1929	Mattapan
Fisher, John H.	E.E.	1926	Quincy
Fisher, Roland H.	M.E.	1928	Fitchburg
Fitts, Charles A.	C.E.	1927	North Amherst
Fitts, Leland C.	C.E.	1927	Hampstead, N. H.
Fitzhenry, Robert E.	E.E.	1927	Walpole
Flanders, William J.	Adm.E.	1928	Allston
Flett, David E.	C.E.	1927	Somerville
Fleuriel, Paul M.	M.E.	1928	Swampscott
Flinn, Edwin S.	Ch.E.	1928	W. Roxbury
Flynn, Roland W.	M.E.	1926	Concord
Foley, M. Arthur	Ch.E.	1929	Salem
Foley, William J.	E.E.	1929	Natick
Folsom, Lawrence B.	Ch.E.	1927	Greenville, Me.
Foote, Dwight W.	E.E.	1929	Hartford, Conn.
Ford, Lysle N.	E.E.	1928	Brockton
Forrest, John F.	C.E.	1929	Marlboro
Forsberg, Hilbert T.	E.E.	1928	Brockton
Forsberg, Stanley E.	Ch.E.	1929	Brockton
Forslind, Elmer E.	C.E.	1929	Everett
Forster, Carl P.	M.E.	1928	Fall River
Foster, Alton H.	E.E.	1928	Norton
Foster, James D.	E.E.	1927	Winthrop
Foster, John H.	M.E.	1929	Rochester, N. Y.
Foster, Raymond H.	M.E.	1929	Norton
Foster, Vernon D.	Adm.E.	1929	Beverly
Foye, Allen B.	Ch.E.	1927	Westdale
Frank, Yort W.	E.E.	1929	Providence, R. I.
Fraser, Alexander W.	M.E.	1929	Watertown
Freeland, Clifford M.	M.E.	1928	Holden
Freeman, Cedric A.	E.E.	1929	North Abington
Freeman, Donald C.	Adm.E.	1929	Nashua, N. H.
French, Ralph T.	E.E.	1929	Natick
Frey, Edward J.	M.E.	1928	Windsor Locks, Conn.
Friberg, Carl J.	M.E.	1929	Plymouth
Frisbie, Percy C.	E.E.	1928	Dorchester
Frost, Daniel C.	C.E.	1926	Newburyport
Frye, George A.	Adm.E.	1929	Newport, R. I.
Frykholm, Walter B.	M.E.	1929	Worcester
Fuller, Howard M.	E.E.	1929	Norton
Fuller, John, Jr.	Ch.E.	1926	Atlantic
Gaffney, William E.	Ch.E.	1927	Warcham
Gale, F. Gardiner	E.E.	1926	Concord Jct.

## SCHOOL OF ENGINEERING

NAME	DEPT.	YEAR	HOME ADDRESS
Galvin, Daniel T.	E.E.	1929	Boston
Gamble, Harold G.	C.E.	1926	Boston
Garcelon, Stewart C.	C.E.	1929	Lynn
Garcia, Julian A.	M.E.	1928	Arecibo, Porto Rico
Gates, Edwin B.	C.E.	1929	Orange
Gebhardt, Louis F.	M.E.	1926	Boston
Gedney, Gaylord W.	Adm.E.	1928	East Lynn
Geissler, Henry	E.E.	1928	Sharon
Ghen, Russell C.	E.E.	1926	Melrose
Gibadlo, Frank	Ch.E.	1929	Salem
Giblin, Thomas G.	C.E.	1927	Roxbury
Gifford, Clarence H.	M.E.	1926	South Westport
Gilchrist, A. Bruce	M.E.	1927	Foxboro
Gillette, Ralph G.	Adm.E.	1929	Savona, N. Y.
Gilman, Soli	C.E.	1928	Peabody
Gilmore, Ross A.	C.E.	1927	Quincy
Ginsburg, Bernard	E.E.	1929	Peabody
Glazer, Louis	Ch.E.	1929	Brookline
Glen, Crawford	E.E.	1927	Taunton
Glickman, Harry	M.E.	1927	W. Medway
Glover, L. Bancroft	E.E.	1928	Winthrop
Glowacki, Joseph	Ch.E.	1928	Andover
Goddin, Eugene B.	E.E.	1928	Atlantic
Goeller, Charles P.	E.E.	1929	Boston
Gohlke, Richard T.	E.E.	1929	South Sudbury
Goldberg, Edward M.	Ch.E.	1927	Roxbury
Goldstein, Samuel	M.E.	1929	East Boston
Goldstone, Louis A.	E.E.	1927	Hartford, Conn.
Goodridge, Laurence M.	M.E.	1929	Brockton
Goodspeed, Ernest L.	M.E.	1929	Dorchester
Goodwin, Curtis E.	Adm.E.	1929	W. Somerville
Goodwin, John C.	Ch.E.	1929	Franklin
Gordon, Nathan B.	E.E.	1928	Bristol, Conn.
Goslin, Willis C.	E.E.	1929	Attleboro
Gould, David W.	E.E.	1928	South Boston
Gould, Frederick W.	Adm.E.	1929	Andover
Gould, George R.	C.E.	1929	Portland, Me.
Gourley, Evans F.	E.E.	1927	Melrose
Gowen, Alton B.	M.E.	1927	Medford
Grabau, Francis W.	E.E.	1926	Hyde Park
Grace, Thomas H.	Ch.E.	1929	Dorchester
Gragnano, Joseph A.	C.E.	1929	New York, N. Y.
Graham, Frank E.	Ch.E.	1926	Boston
Graham, Hazen E.	E.E.	1929	Howland, Me.
Grammont, Valmore	Ch.E.	1929	Gardner
Grant, Charles W.	M.E.	1926	West Roxbury
Grant, Gordon L.	M.E.	1929	New York, N. Y.
Gray, H. Gordon	C.E.	1928	Beverly
Gray, Ellis W.	E.E.	1929	Townsend Harbor
Gray, Walter M.	E.E.	1928	Peabody
Greeley, Guy E.	M.E.	1929	Lynn
Greenwood, Walter S.	E.E.	1929	Fitchburg
Gregg, Earl F.	E.E.	1926	Mars Hill, Me.

# NORTHEASTERN UNIVERSITY

NAME	DEPT.	YEAR	HOME ADDRESS
Gregory, Howard M.	E.E.	1929	West Haven, Conn.
Grevis, John	Ch.E.	1928	Boston
Grimes, Edgar S.	E.E.	1928	Lawrence
Griswold, Elmer P.	E.E.	1929	Hopkinton
Grover, Lawrence W.	C.E.	1928	Halifax
Guarino, Marcello J.	C.E.	1929	White River Jct., V.
Guerra, Domenic R.	C.E.	1928	East Boston
Gunn, Donald W.	E.E.	1929	Boston
Gurney, Harold D.	C.E.	1929	Atlantic
Hadlock, Calvin F.	E.E.	1927	Mansfield
Haendler, Anton T.	E.E.	1926	East Milton
Hagelston, Herbert F.	Ch.E.	1927	Boston
Hagerty, George A.	E.E.	1929	Dorchester
Haggett, Burton C.	E.E.	1929	Woodford, Me.
Haigis, Russell J.	Ch.E.	1927	New Britain, Conn.
Hakesley, Edward R.	E.E.	1926	Somerville
Hall, Henry D.	E.E.	1929	Concord
Hamilton, Charles H.	Ch.E.	1929	Allston
Hamilton, Philip W.	E.E.	1928	Caribou, Me.
Hamparian, Hampar B.	C.E.	1926	Boston
Hampe, Fritz F.	C.E.	1926	Jamaica Plain
Hamre, John A.	E.E.	1929	Quincy
Hanson, Allan V.	C.E.	1929	Everett
Hanson, Erling A.	C.E.	1926	Boston
Hargreaves, William	E.E.	1928	Newton
Harrington, Elvin E.	M.E.	1926	Milton
Harris, Cecil K.	E.E.	1927	Nova Scotia
Hasenfuss, Joseph N.	C.E.	1927	Boston
Haskins, George A.	C.E.	1926	Middleboro
Hastings, Ralph S.	Ch.E.	1929	Taunton
Hatch, James Boyd	C.E.	1927	Arlington Heights
Hatfield, George N.	E.E.	1929	Waltham
Hathaway, Carlton W.	C.E.	1928	New Bedford
Hathaway, James F.	C.E.	1929	New Bedford
Haviland, John M.	M.E.	1929	Woodfords, Me.
Hawes, Norman A.	Adm.E.	1929	Hanover, N. H.
Heaney, Frank L.	C.E.	1929	Braintree
Heath, Elroy E.	E.E.	1927	Sharon, Vt.
Helgeson, Frank	E.E.	1929	Brockton
Hemmenway, Donald L.	E.E.	1928	Bryantville
Henderson, Lester K.	E.E.	1927	North Abington
Hennessey, Austin L.	Ch.E.	1929	Lowell
Henry, Richard A.	E.E.	1928	Boston
Hepburn, Ronald M.	C.E.	1929	Quincy
Herholz, John A.	C.E.	1928	Clinton
Herland, Edward A.	C.E.	1929	Winthrop
Herrick, Earle F.	Adm.E.	1929	Beverly
Hetherington, James V.	E.E.	1928	Waverley
Heussi, Andre A.	E.E.	1929	Palmer, N. Y.
Hey, John A.	M.E.	1929	Lawrence
Heywood, Andrew H.	E.E.	1926	N. Yarmouth, Me.
Hicks, James C.	E.E.	1928	Walnut Hill, Me.
Higgins, Paul F.	M.E.	1927	Medford



## SCHOOL OF ENGINEERING

NAME	DEPT.	YEAR	HOME ADDRESS
El, Clifford B.	C.E.	1929	<i>Fryeburg, Me.</i>
Elsgrove, James W.	M.E.	1928	<i>Wakefield</i>
Eton, Henry B.	C.E.	1926	<i>Danvers</i>
Eton, Roger R.	C.E.	1929	<i>Lewiston, Me.</i>
Eton, William B.	C.E.	1928	<i>Danvers</i>
Eckley, Everett H. Jr.	Ch.E.	1929	<i>Mamaroneck, N. Y.</i>
Edley, Chester A. Jr.	E.E.	1929	<i>Concord, N. H.</i>
Egland, A. Reinhold	Ch.E.	1929	<i>Waltham</i>
Ebbs, Maurice P.	C.E.	1928	<i>Mansfield</i>
Ebby, Edgar N.	M.E.	1929	<i>Gardner</i>
Edgkins, Myles M.	Ch.E.	1926	<i>Roslindale</i>
Elmes, Weldon C.	E.E.	1929	<i>Campello</i>
Eimgren, Carl W.	Ch.E.	1929	<i>Natick</i>
Elmstead, Harold B.	E.E.	1928	<i>Boston</i>
Elt, Benjamin	E.E.	1926	<i>Lawrence</i>
Elmkowycz, Theodore W.	C.E.	1928	<i>Brighton</i>
Eoper, Melvin F.	Ch.E.	1928	<i>Gloucester</i>
Epkins, Howe Hoyt	M.E.	1926	<i>Trenton, Me.</i>
Eughton, Horace C.	M.E.	1926	<i>Dorchester</i>
Euse, William F.	M.E.	1929	<i>Brooklyn, Conn.</i>
Eward, Edwin M.	C.E.	1929	<i>Winthrop</i>
Eward, Eliot W.	E.E.	1929	<i>Everett</i>
Eward, Warren A.	C.E.	1929	<i>Ridgewood, N. J.</i>
Ewe, Fred K.	Ch.E.	1929	<i>Newton Centre</i>
Ewell, Edward P.	E.E.	1929	<i>Dorchester</i>
Ebby, Paul E.	M.E.	1926	<i>Boston</i>
Eghes, Robert J.	M.E.	1929	<i>Boston</i>
Ell, Randolph M.	E.E.	1926	<i>High Point, N. C.</i>
Eamphre, Weldon C. J.	M.E.	1927	<i>Douglas, Arizona</i>
Eant, Charles W.	E.E.	1927	<i>Dorchester</i>
Eant, Percival R.	M.E.	1926	<i>Boston</i>
Earlbur, Charles E.	E.E.	1927	<i>Danvers</i>
Eurlihe, William J.	C.E.	1927	<i>Danbury, Conn.</i>
Eutchins, Linwood N.	C.E.	1927	<i>Portland, Me.</i>
Eutchins, William R.	C.E.	1929	<i>Auburndale</i>
Eutt, Chester M.	M.E.	1927	<i>Berlin</i>
Evin, Donald J.	C.E.	1929	<i>Lowell</i>
Eobs, John J.	M.E.	1928	<i>Boston</i>
Eobson, Morris	E.E.	1928	<i>Winthrop</i>
Eomes, Shirrell M.	M.E.	1928	<i>Worcester</i>
Enssen, Julius R.	M.E.	1927	<i>South Manchester</i>
Ennings, Louis A.	E.E.	1927	<i>Broadway, Virginia</i>
Epson, Milton W.	E.E.	1928	<i>New Bedford</i>
Ewell, Harold P.	Ch.E.	1929	<i>Cambridge</i>
Ehansen, Joseph A.	M.E.	1928	<i>Roslindale</i>
Ehanson, Carl G., Jr.	E.E.	1928	<i>Concord Junction</i>
Ehanson, Warren L.	M.E.	1929	<i>Somerville</i>
Ehanson, Arthur L.	E.E.	1927	<i>West Roxbury</i>
Ehanson, Carl W.	M.E.	1929	<i>North Easton</i>
Ehanson, Charles S.	E.E.	1929	<i>Boston</i>
Ehanson, Eric C.	Ch.E.	1929	<i>Roxbury</i>
Ehanson, George C.	E.E.	1928	<i>West Roxbury</i>
Ehanson, George E.	M.E.	1927	<i>Brockton</i>

# NORTHEASTERN UNIVERSITY

NAME	DEPT.	YEAR	HOME ADDRESS
Johnson, Harold E.	C.E.	1929	Worcester
Johnson, Ralph L.	E.E.	1929	Lynn
Johnson, Ruben A.	E.E.	1929	Cambridge
Johnston, William R.	M.E.	1927	Clinton
Jones, Archibald L.	E.E.	1926	Middleton
Jones, Harry O.	E.E.	1928	Watertown
Jordan, George R.	C.E.	1929	Roxbury
Jordan, Harold P.	M.E.	1926	Brockton
Kalinsky, Joseph	C.E.	1926	Roxbury
Kallelis, Nicholas S.	C.E.	1928	Peabody
Kallelis, Peter S.	C.E.	1929	Peabody
Kalstein, Abraham G.	E.E.	1926	Boston
Kalstein, John E.	E.E.	1929	Boston
Kane, Raymond J.	E.E.	1929	Frammingham
Kaplan, George	M.E.	1926	Mattapan
Katziff, Morris S.	Ch.E.	1929	Winthrop
Kauppi, Donald M.	C.E.	1929	Gardner
Kearney, Ralph N.	M.E.	1926	Boston
Keene, Albert R.	M.E.	1926	Wollaston
Keene, William F.	M.E.	1928	Frammingham
Keith, Walter S.	E.E.	1926	Whitman
Kelleher, Cornelius P.	C.E.	1929	Fitchburg
Kelley, James J.	E.E.	1929	Bridgewater
Kelley, Ralph L.	E.E.	1929	Avon
Kellogg, Edward A.	C.E.	1927	Belmont
Kelly, John F.	Ch.E.	1929	Boston
Kempanen, Harry L.	M.E.	1928	Fitchburg
Kendall, Alton C.	Adm.E.	1929	Worcester
Kendall, Oren E., Jr.	M.E.	1929	Canton
Kerins, Charles A.	C.E.	1929	Medford
Kibildis, George	E.E.	1926	Lawrence
Killam, Allison L.	C.E.	1928	East Lynn
Killen, Paul J.	E.E.	1928	Nantucket
Kilpatrick, Lawrence E.	C.E.	1927	Brooklyn, Conn.
Kimball, Stephen F.	Adm.E.	1929	Danvers
King, Earle	C.E.	1929	Pottersville
King, John A.	E.E.	1929	Bradford
King, Winston	M.E.	1929	New Bedford
Kinghorn, James H.	M.E.	1929	Fitchburg
Kingsbury, Herbert F.	E.E.	1926	Frammingham
Kiniry, B. John	Ch.E.	1929	Medfield
Kinney, Harry H.	M.E.	1926	Stoncham
Kirby, Edward J.	E.E.	1929	Boston
Kirkland, John F.	E.E.	1927	Dorchester
Klein, Robert W.	M.E.	1929	Boston
Knott, Benjamin S.	E.E.	1928	Fall River
Knwles, Howard F.	E.E.	1928	Augusta, Me.
Knowlton, Charles W.	C.E.	1928	Somerville
Kofman, Louis	E.E.	1929	Medway
Komich, Joseph A.	C.E.	1928	South Boston
Koss, Stephen J.	E.E.	1929	Taunton
Kumblad, Warren S.	Ch.E.	1928	Brockton
Kupka, Alexander	M.E.	1926	Brockton

## SCHOOL OF ENGINEERING

NAME	DEPT.	YEAR	HOME ADDRESS
Kurchian, Harry	C.E.	1929	Waverley
Kurkjian, John A.	C.E.	1929	Boston
LaBelle, Lionel	Ch.E.	1929	Brockton
Lailey, Harold	E.E.	1929	Norwood
Lake, Maurice E.	E.E.	1927	Hampstead, N. H.
Lambert, Kenneth G.	E.E.	1928	Lexington
Lamm, Lester P.	E.E.	1929	Hull
Lampinen, Wilho A.	E.E.	1929	Wollaston
Landry, Edward B.	Ch.E.	1929	Quincy
Lane, James E.	Ch.E.	1929	Norwood
Lang, Robert H.	E.E.	1927	Salem
Lanzi, Frank L.	M.E.	1926	East Hampton, Conn.
Larmore, Frederick E.	E.E.	1929	North Haven, Conn.
Larrabee, Robert W.	Ch.E.	1928	Winchester
Larsen, Herbert G.	E.E.	1929	Dorchester
Latter, Hinman D.	M.E.	1929	Providence, R. I.
LaValley, Frederick L.	E.E.	1929	Williamsburg
Lavash, Francis L.	M.E.	1927	Somerville
Lavers, Willard D.	C.E.	1926	Salem
Lawrence, Edwin D.	M.E.	1926	Auburndale
Lawson, Arthur H.	Adm.E.	1929	Foxboro
Lawson, Ernest	M.E.	1928	Wollaston
Lawson, Robert A.	E.E.	1928	Dorchester
Leavitt, Oral	C.E.	1929	Everett
Lee, Arthur W.	M.E.	1927	Carlisle
Lee, Howard C.	E.E.	1928	Berlin, N. H.
Lee, Robert C.	Ch.E.	1928	Dorchester
Lee, Robert E.	C.E.	1927	Gardner
Lehan, John F.	E.E.	1928	Cambridge
Leonard, Harry T.	C.E.	1928	Milford
Leonard, Richard J.	E.E.	1927	Newton
Leppanen, Ero C.	E.E.	1929	Fitchburg
Leussler, James A.	C.E.	1928	Jamaica Plain
Levine, Abraham	E.E.	1929	Boston
Levine, Nathan	M.E.	1929	Roxbury
Levy, Hyman	E.E.	1929	Winthrop
Lewis, Clyde E.	E.E.	1929	Stratford, Conn.
Lewis, Everett F.	E.E.	1929	Lynn
Lewis, Edgar V.	C.E.	1928	Middleboro
Lewis, William G.	F.E.	1929	Roxbury
L'Heureux, Joseph A.	C.E.	1927	Lowell
Lightbown, John	E.E.	1926	New Bedford
Lindaw, Arthur C.	Ch.E.	1929	Arlington
Lindgren, Oscar R.	C.E.	1926	Ansonia, Conn.
Linscott, Mellen C.	C.E.	1927	Woodfords, Maine
Linthwaite, Paul E.	M.E.	1929	Waltham
Locke, Charles T.	E.E.	1929	Dorchester
Lofgren, Rudolph A.	C.E.	1927	Quincy
Longley, Raymond J.	Ch.E.	1926	Boston
Lookup, George E.	C.E.	1929	Cohocton, N. Y.
Loomis, Perley A.	E.E.	1929	Skowhegan, Me.
Lord, Harold M.	E.E.	1929	Skowhegan, Me.
Lord, Samuel E.	E.E.	1928	Lowell

# NORTHEASTERN UNIVERSITY

NAME	DEPT.	YEAR	HOME ADDRESS
Lounsbury, Earle L.	C.E.	1929	Malden
Love, Veron A.	Ch.E.	1929	Brookfield
LoVetere, Anthony T.	C.E.	1929	East Boston
Luce, William R.	M.E.	1929	Springfield
Lurie, Eli	E.E.	1929	Winthrop
Lyman, Eugene A.	C.E.	1927	Springfield
Lyman, Edward C.	E.E.	1927	Watertown
Lyman, Wallace R.	M.E.	1929	Northampton
Lynch, Norman L.	M.E.	1929	Lynn
Lyons, Albert T.	M.E.	1928	Boston
Lyons, Lewis	E.E.	1929	East Milton
Lyons, Raymond B.	C.E.	1927	Brooklyn, N. Y.
MacCarthy, Norman F.	E.E.	1927	Norwood
MacDonald, Herbert A.	E.E.	1929	Watertown
MacDonald, Hugh C.	E.E.	1928	North Abington
MacFee, James A.	C.E.	1929	Natick
MacKenna, Leon J.	M.E.	1926	Fort Corington, N. Y.
Mackenny, Lawrence R.	M.E.	1929	Norwood
MacKinnon, Robert B.	C.E.	1928	Roslindale
MacLachlan, Robert D.	Ch.E.	1926	Roslindale
MacLean, Kenneth G.	E.E.	1928	Quincy
MacLeod, Edward M.	E.E.	1926	E. Dedham
MacLeod, Harold L.	C.E.	1927	Quincy
MacLeod, Harry G.	Adm.E.	1929	N. Tonawanda, N. Y.
MacLeod, Norman E.	E.E.	1929	Quincy
MacMurtrie, Dayton C.	M.E.	1929	Montgomery, N. Y.
Maddocks, Joseph W.	E.E.	1926	Gardiner, Me.
Mader, Stewart	M.E.	1928	Taunton
Mager, Arthur M.	C.E.	1929	Taunton
Magnifico, Jerome W.	Ch.E.	1929	E. Boston
Mahoney, Michael A.	C.E.	1927	Quincy
Maier, William F.	E.E.	1926	Dorchester
Malkasian, Zaven	C.E.	1927	Watertown
Mancuso, Russell J.	Ch.E.	1929	Fredonia, N. Y.
Manneros, Ralph A.	C.E.	1929	Atlantic
Marden, George F.	E.E.	1927	Brockton
Marion, Jack	C.E.	1928	Chelsea
Marr, John F.	Ch.E.	1926	Revere
Marshall, George F.	M.E.	1929	Waltham
Marston, Francis J.	C.E.	1928	Dorchester
Marston, Lawrence E.	Adm.E.	1929	Auburn, Me.
Martin, Arthur D.	C.E.	1926	Richford, Vt.
Martin, George E.	M.E.	1929	West Medford
Masefield, Augustus J.	C.E.	1929	Brockton
Maskell, William E. Jr.	E.E.	1929	Milton
Mason, Harold R.	Adm.E.	1929	Gardner
Mason, James	E.E.	1929	W. Peabody
Mason, Robert	M.E.	1929	Waverley
Mastrangelo, D. J.	M.E.	1928	New York, N. Y.
Matakaetis, Michael C.	C.E.	1927	Middlebury, Conn.
Mathers, Ernest	C.E.	1926	Milton
Matthews, Adrian M.	M.E.	1926	Bristol, Conn.
Mattson, Carl R.	C.E.	1929	Natick

# SCHOOL OF ENGINEERING

NAME	DEPT.	YEAR	HOME ADDRESS
Mattson, Frank D.	M.E.	1929	Waltham
Mattson, Gustaf E.	M.E.	1929	Waltham
Mayo, Silsby B.	M.E.	1927	Bangor, Me.
Mead, Rolan J.	E.E.	1928	Townsend
Meehan, John J.	C.E.	1928	Jamaica Plain
Megley, James W.	E.E.	1927	Avon
Mekkelsen, Nils M.	Ch.E.	1927	Arlington Heights
Melcher, George H.	C.E.	1926	Salem
Mellish, James E.	Ch.E.	1926	Prince Edw. Isl'd., Can.
Mellor, Frederick	C.E.	1926	New Bedford
Mellor, Louis	E.E.	1929	Canton
Meo, Dominic	Ch.E.	1928	Boston
Merchant, Milton H.	Ch.E.	1927	Wollaston
Mercier, Albert J.	C.E.	1928	Barre, Vt.
Merrill, Oliver E.	E.E.	1927	Wollaston
Merrill, Robert C.	M.E.	1928	Cumberland Centre, Me.
Meyer, George E.	C.E.	1927	Norwood
Meyers, Frank C.	C.E.	1929	Boston
Mihaljan, Manuel J.	C.E.	1926	Cambridge
Millen, Alan R.	C.E.	1926	Quincy
Miller, Charles W.	E.E.	1927	South Hanover
Mills, William P.	E.E.	1929	Rockport
Milne, James A.	E.E.	1929	Quincy
Mishkoff, Asen	E.E.	1929	Boston
Misterly, Anthony J.	E.E.	1929	Medford
Mitchell, Grant	E.E.	1929	Boston
Moacro, Joseph S.	E.E.	1926	Springfield
Montalbano, John	M.E.	1929	Frammingham
Moore, Charles K.	C.E.	1926	Fall River
Moore, Francis B.	E.E.	1927	W. Stewartstown, N. H.
Moran, Ernest H.	M.E.	1928	Frammingham
More, William E.	E.E.	1929	Arlington
Moreau, Wendell S.	C.E.	1928	Chicopee
Morley, Frank W.	E.E.	1926	Hyde Park
Morley, John T.	M.E.	1929	Hyde Park
Morrill, William C.	C.E.	1929	Haverhill
Morris, Edward B.	E.E.	1929	West Haven, Conn.
Morris, George H.	Ch.E.	1929	Waltham, Mass.
Morris, Preston H.	E.E.	1927	Nantucket
Morrison, Sterling H.	M.E.	1928	Boston
Morrow, Emerson S.	M.E.	1927	Frammingham
Morse, Elihu N.	C.E.	1929	Orange
Morton, Henry I.	Ch.E.	1927	Fairhaven
Morton, John	M.E.	1928	Quincy
Moulthrop, Leroy S.	C.E.	1927	Shelton, Conn.
Moulton, Earl L.	M.E.	1926	E. Weymouth
Mowatt, G. Leon	Ch.E.	1928	Derby, Maine
Mulhern, John F.	E.E.	1929	Roslindale
Mullaney, Edward J.	Ch.E.	1929	Lowell
Munsey, Donald T.	M.E.	1929	Hampton, N. H.
Munsey, Donald W.	E.E.	1927	New Harbor, Maine
Murphy, Nelson L.	C.E.	1926	Waltham
Murphy, Robert J.	E.E.	1929	Brockton

# NORTHEASTERN UNIVERSITY

NAME	DEPT.	YEAR	HOME ADDRESS
Murphy, Ronald S.	E.E.	1927	New Preston, Conn.
Murphy, Walter J.	Ch.E.	1926	East Walpole
Murphy, William H.	C.E.	1929	Rumford, Me.
Murray, Arthur E.	M.E.	1928	Beverly
Murray, Harry B.	E.E.	1929	Middletown, Conn.
Murray, John M.	E.E.	1928	Revere
McCarty, William P.	Ch.E.	1929	Lowell
McClure, Harold E.	Ch.E.	1926	Lawrence
McConnell, Joseph B.	C.E.	1929	Allston
McCoombe, Charles M.	E.E.	1926	Atlantic
McCrillis, Donald S.	E.E.	1926	Wollaston
McCulloch, Malcolm D.	M.E.	1929	Frammingham
McDonald, Michael J. Jr.	E.E.	1929	Newtonville
McGee, Alfred W.	M.E.	1929	Roxbury
McGee, Harold B.	Ch.E.	1926	Roxbury
McGivern, James G.	M.E.	1928	Boston
McGoff, Harold E.	M.E.	1929	Gardiner, Me.
McIntosh, Otis W.	C.E.	1929	Lynn
McKee, Winston F.	M.E.	1929	Franklin, N. H.
McKenna, George A.	C.E.	1926	Waltham, Mass.
McKeon, Raymond	C.E.	1929	Kensington, Conn.
McKnight, John F.	C.E.	1929	Newton Highlands
McKnight, Lawrence S.	E.E.	1928	East Thetford, Vt.
McKown, Henry M.	E.E.	1927	Lynn
McLearn, John G.	M.E.	1928	Swampscott
McLelland, David M. Jr.	E.E.	1929	Beverly
McManamin, Joseph	C.E.	1929	Wakefield
McMaster, Lauren L.	Ch.E.	1928	Wakefield
McNamara, Roger A.	M.E.	1928	Easton
McNayr, Irving H.	E.E.	1927	North Easton
McRae, J. Donald	E.E.	1926	Allston
Nanus, Joseph L.	E.E.	1929	Hudson Falls, N. Y.
Nash, Ralph E.	E.E.	1927	Peabody
Nason, Louis T.	E.E.	1928	Boston
Negus, Kenneth D.	C.E.	1927	Gardner
Neiditz, Samuel	Ch.E.	1929	Hartford, Conn.
Neil, Dexter S.	C.E.	1926	Lowell
Neill, Walter B.	E.E.	1928	Hyde Park
Nelson, Carl W.	E.E.	1926	Brockton
Nelson, Theodore A.	Ch.E.	1929	Atlantic
Nelson, Edward R.	Ch.E.	1928	Somerville
Newell, David M.	E.E.	1926	Amesbury
Newton, Stanley H.	M.E.	1929	Norway, Me.
Nichols, Wallace H.	M.E.	1929	Newton Highlands
Nicol, James	E.E.	1926	Fall River
Nilan, William J.	C.E.	1929	Naugatuck, Conn.
Nilsson, Raymond D.	C.E.	1929	Avon
Norcross, Vernon N.	C.E.	1928	E. Bridgewater
Normile, Hubert C.	Ch.E.	1929	Beachmont
Norton, H. Douglas	E.E.	1929	New Britain, Conn.
Noyes, Warren F.	E.E.	1929	Woburn
Nugent, Arthur W.	E.E.	1928	Fitchburg
Oberg, Rudolph O. M.	E.E.	1926	Neponset

## SCHOOL OF ENGINEERING

NAME	DEPT.	YEAR	HOME ADDRESS
O'Connor, Charles T.	Ch.E.	1928	Norwood
O'Donnell, Martin E.	Ch.E.	1929	Everett
Ohanesan, Vahrm G.	Ch.E.	1929	New Britain, Conn.
Olson, Ernest W.	M.E.	1929	Jamaica Plain
O'Neil, William H. Jr.	E.E.	1927	Greenfield
Osborne, Raymond A.	M.E.	1928	Beverly
Osetek, Joseph W.	E.E.	1928	Wakefield
Osgood, Warren G.	E.E.	1929	Avon
O'Shea, Bernard A.	C.E.	1929	Lynn
Ostrander, Edgar J.	C.E.	1927	Ghent, N. Y.
Otis, Dwight C.	Ch.E.	1926	Melrose Hlds.
Packard, Lawrence C.	E.E.	1928	Dryden, Me.
Padham, Vernon B.	Adm.E.	1928	Madison, Me.
Page, Grahame D.	M.E.	1928	Everett
Pagliarulo, Joseph F.	C.E.	1926	East Boston
Paine, William L.	E.E.	1928	Plymouth
Pallete, Alfred A.	M.E.	1928	Peru, S. America
Parker, David L.	Ch.E.	1926	Lynn
Parker, John L.	M.E.	1928	East Lyme, Conn.
Parker, Robert B. Jr.	M.E.	1929	Springfield, Vt.
Parks, Harold W.	E.E.	1928	Glen Lyon, Penn.
Parmenter, James B.	Ch.E.	1929	Rockland
Parsons, Edgar M.	M.E.	1929	Natick
Parsons, Lester J.	M.E.	1926	Roxbury
Patterson, Harold D.	E.E.	1927	New Milford, Conn.
Patterson, Joseph F.	E.E.	1929	Roxbury
Pattison, Wesley S.	M.E.	1928	Redding, Conn.
Pearce, Hepburn	M.E.	1929	Watertown
Pearlman, Saul	M.E.	1926	Dorchester
Pearson, Arthur C.	Ch.E.	1928	Arlington
Pease, Rolliston A.	E.E.	1929	Farmington, Me.
Penniman, Frederic G.	C.E.	1926	Whitman
Perella, Ernest N.	C.E.	1929	Boston
Perelmutter, Samuel	E.E.	1929	Boston
Perry, George N.	C.E.	1929	Waltham
Petersen, Frank C.	E.E.	1929	Marblehead
Petersen, Laurence F.	M.E.	1929	Concord
Petersen, Ralph B. Jr.	C.E.	1928	Concord
Peterson, Carl U.	M.E.	1929	Lynn
Peterson, Enar F. E.	E.E.	1926	Brockton
Peterson, Norman	M.E.	1928	Woburn
Peterson, Victor S.	Ch.E.	1928	Dorchester
Phelps, James C.	E.E.	1928	Melrose
Phillips, Benjamin E.	M.E.	1927	Beverly
Piispanen, Arthur J.	E.E.	1927	Quincy
Pillsbury, Arthur M.	C.E.	1926	Gorham, Me.
Pinkham, Thomas A. Jr.	E.E.	1929	Ellsworth, Me.
Pinkham, Wallace S.	E.E.	1929	Vineyard Haven
Pinkul, Alfred E.	E.E.	1929	West Roxbury
Pitman, William H.	C.E.	1928	Salem
Platter, Charles T.	C.E.	1926	Boston
Plett, Walter P.	E.E.	1927	South Boston

# NORTHEASTERN UNIVERSITY

NAME	DEPT.	YEAR	HOME ADDRESS
Plimpton, Rodney F.	E.E.	1929	West Somerville
Plummer, Riley M.	C.E.	1929	Vershire, Vt.
Poehlman, Frank C.	E.E.	1929	Roslindale
Politano, Frank J.	E.E.	1929	Winchester
Polle, Carl S.	M.E.	1929	Bristol, Me.
Popkin, Joseph D.	C.E.	1928	Fall River
Porter, Charles S.	E.E.	1928	Exeter, N. H.
Poti, Walter M.	E.E.	1928	Guild, N. H.
Potter, Bernard A.	C.E.	1928	Lynn
Povey, Edmund H.	E.E.	1929	Hyde Park
Pratt, Willard S.	C.E.	1929	South Paris, Me.
Press, Manuel	C.E.	1929	Middletown, Conn.
Pretty, Harry H.	M.E.	1929	Rumford, Me.
Pride, Cecil W.	C.E.	1927	Medford
Prior, Leon B.	E.E.	1927	Quincy
Prowse, Robert J.	C.E.	1928	Concord, N. H.
Pulsifer, Edward B.	E.E.	1929	Wenham
Putnam, Clyde H.	E.E.	1929	Sutton
Pyne, Charles F.	C.E.	1929	Cambridge
Quimby, Austin A.	C.E.	1929	Brookline
Rae, Arthur N.	C.E.	1927	Jamaica Plain
Rae, William M. Jr.	C.E.	1928	Jamaica Plain
Raffone, William P.	E.E.	1927	Boston
Rafuse, Charles E.	Adm.E.	1929	Norwood
Rainford, Dana V.	E.E.	1929	Peabody
Ramm, Harry H.	M.E.	1927	Roxbury
Ramsay, Richard H.	Ch.E.	1928	Berlin, N. H.
Rand, Hovey, Jr.	M.E.	1929	Winthrop, Mass.
Randall, Herbert E. Jr.	C.E.	1929	Brockton
Rauch, Gordon H.	M.E.	1927	East Weymouth
Ravreby, Abraham A.	Ch.E.	1926	Boston
Rawcliffe, George A.	E.E.	1929	New Bedford
Ray, C. Allen	Ch.E.	1928	Revere
Read, Kenneth D.	M.E.	1929	Framingham Center
Record, Donald L.	C.E.	1929	Hanover, N. H.
Redfearn, Alec	C.E.	1929	New Bedford
Redlon, Gilbert F. Jr.	E.E.	1926	Wollaston
Reed, Clifton A.	E.E.	1929	Gardiner, Me.
Reeve, Walter L.	M.E.	1929	Foxboro
Regan, Philip W.	E.E.	1929	Boston
Reitmayer, George C.	E.E.	1928	Belmont
Renert, Hyman	M.E.	1929	Hartford, Conn.
Renker, Charles L.	M.E.	1927	Waterbury, Conn.
Renton, Ralph J.	E.E.	1927	Quincy
Repetto, William F.	E.E.	1929	Somerville
Reynolds, Albert F.	C.E.	1929	Jamaica Plain
Reynolds, Ralph D. K.	E.E.	1929	Fall River
Rhodes, Wilfred R.	C.E.	1927	Watertown
Riccio, Angelo P.	M.E.	1926	Watertown
Rice, Reginald H.	C.E.	1926	Concord, N. H.
Rich, Maurice	E.E.	1927	Roxbury
Richards, Augustus J.	M.E.	1927	Beverly
Richardson, Charles S.	C.E.	1929	Lynn



## SCHOOL OF ENGINEERING

NAME	DEPT.	YEAR	HOME ADDRESS
Richardson, Coburn M.	C.E.	1929	Groveland
Richardson, Earl L.	E.E.	1929	Fitchburg
Richardson, Raymond P.	M.E.	1929	Natick
Richman, Hyman P.	E.E.	1926	Quincy
Richmond, Nelson R.	E.E.	1928	Becket
Richmond, Stanley D.	E.E.	1928	South Manchester, Conn.
Ricker, Raymond A.	E.E.	1928	Ricker Mill, Vt.
Rideout, Gordon T.	C.E.	1928	Everett
Rider, George L.	E.E.	1929	Arlington
Rietzel, Theodore E.	E.E.	1928	West Roxbury
Rigo, Joseph B.	C.E.	1928	Portland, Me.
Riley, Edward F.	M.E.	1926	Wareham
Ringenwald, Ernest A.	E.E.	1929	Manchester, N. H.
Riordan, Eugene J.	C.E.	1929	Cambridge
Rising, Laurence C.	E.E.	1927	Newton Center
Roberts, Albert A.	C.E.	1928	Winchester
Roberts, George P.	M.E.	1929	W. Medford
Roberts, Harry M.	Ch.E.	1929	Peabody
Robinson, Clayton D.	E.E.	1929	Gardiner, Me.
Robinson, Earle C.	C.E.	1927	Wilmington
Roche, Edward M.	C.E.	1929	Forestville, Conn.
Rogers, Eugene H.	Adm.E.	1928	Beverly
Rollings, Gerald D.	Ch.E.	1927	Dorchester
Rollins, Kendrick O.	E.E.	1928	Dorchester
Ronald, James A.	M.E.	1929	Quincy
Root, Kenneth W.	E.E.	1928	Fall River
Rosenfeld, Irving J.	C.E.	1929	Milford
Rosenquist, Stanley L.	M.E.	1929	East Milton
Rosoff, Leo	M.E.	1928	Roxbury
Ross, Alec	C.E.	1928	Chelsea
Ross, Arthur	Ch.E.	1926	Chelsea
Ross, Arthur S.	C.E.	1929	Norton
Ross, Edison H.	E.E.	1927	Norton
Ross, Elmer G.	M.E.	1927	Leominster
Rossetti, George	E.E.	1929	East Boston
Royle, Norman H.	E.E.	1929	Waltham
Rundberg, Eric G. S.	M.E.	1928	Deep River, Conn.
Russell, Jeremiah W.	E.E.	1928	Roslyn, Long Isl'd, N.Y.
Russell, William C.	C.E.	1929	Everett
Rutishauser, Harry W.	E.E.	1929	Woodstock, Conn.
Rylander, Everett A.	E.E.	1926	Framingham
Rys, Frank E.	E.E.	1929	Bondsville
Sacco, Benjamin J.	E.E.	1928	Boston
Sage, Warren F.	E.E.	1929	Morris Run, Penn.
Saila, Sampo K.	E.E.	1928	Fitchburg
Sampson, James	M.E.	1926	Roxbury
Sanborn, Merle M.	C.E.	1928	Winthrop, Me.
Sanderson, Albert E.	C.E.	1926	Waltham
Sanderson, Page	C.E.	1926	Wellesley
Sands, Arthur E.	Ch.E.	1927	E. Lynn
Sanges, Salvatore L.	E.E.	1929	Gloversville, N. Y.
Santella, Ralph A.	C.E.	1929	Marlboro
Sargent, John M. W.	C.E.	1928	Beverly

# NORTHEASTERN UNIVERSITY

NAME	DEPT.	YEAR	HOME ADDRESS
Sargent, Wesley G.	M.E.	1929	<i>Framingham</i>
Satterlee, Howard A.	E.E.	1923	<i>Needham Heights</i>
Saunders, Ernest L.	E.E.	1929	<i>Brockton</i>
Savery, Arlo R.	C.E.	1926	<i>Silver Lake</i>
Sawin, George W.	C.E.	1926	<i>Dorchester</i>
Sawyer, Chester B.	E.E.	1928	<i>Needham</i>
Schaeffer, Sidney S.	C.E.	1929	<i>New Haven, Conn.</i>
Schmelzer, Frank E.	E.E.	1929	<i>Billerica</i>
Schofield, Llewellyn T.	C.E.	1929	<i>Weston</i>
Schramm, George F.	C.E.	1926	<i>Roslindale</i>
Schwartz, Simon	E.E.	1928	<i>Lawrence</i>
Scoppettuolo, Victor M.	E.E.	1929	<i>Medford</i>
Scott, Harold W.	E.E.	1929	<i>Keene, N. H.</i>
Scott, Henry O.	C.E.	1929	<i>Haverhill</i>
Scussel, Robert	C.E.	1927	<i>Stafford Springs, Conn.</i>
Seavey, Raymond N.	E.E.	1929	<i>Bradford</i>
Selya, Herman C.	Ch.E.	1929	<i>Milford</i>
Semenyna, Waldimir	C.E.	1926	<i>Boston</i>
Shanbaum, Israel	C.E.	1929	<i>Clinton</i>
Shapiro, Carl L.	Ch.E.	1928	<i>Chelsea</i>
Shaw, Walter F.	C.E.	1927	<i>Somerville</i>
Shea, Paul C.	Ch.E.	1926	<i>Lynn</i>
Shellenberger, Harold T.	Adm.E.	1929	<i>Perkosie, Penn.</i>
Sherman, Daniel H.	Ch.E.	1926	<i>Roxbury</i>
Sherman, Wilson R.	E.E.	1927	<i>Fall River</i>
Sherys, John	E.E.	1927	<i>Lynn</i>
Shields, James C.	E.E.	1928	<i>Stoughton</i>
Shuman, Harry	Ch.E.	1929	<i>Chelsea</i>
Sillgren, Paul E.	Ch.E.	1929	<i>Lebanon, N. H.</i>
Silliman, Horace F.	Ch.E.	1927	<i>Chester, Conn.</i>
Silverman, Hyman	Ch.E.	1929	<i>Malden</i>
Simms, Leslie R.	M.E.	1928	<i>Roxbury</i>
Simonetty, Herbert	M.E.	1929	<i>Kingston, N. Y.</i>
Simons, William T.	M.E.	1929	<i>Needham Heights</i>
Siranossian, Henry H.	C.E.	1929	<i>Bridgewater</i>
Skelton, Bradford S.	E.E.	1927	<i>Burlington</i>
Skinner, Charles E.	C.E.	1927	<i>Roslindale</i>
Skinner, Charles W.	Ch.E.	1926	<i>Hamilton</i>
Sloan, Robert H.	E.E.	1928	<i>Boston</i>
Slocombe, Ralph E.	M.E.	1927	<i>New Haven, Conn.</i>
Slocum, Adelbert I.	E.E.	1927	<i>Hyde Park</i>
Smalley, Dayton B.	E.E.	1926	<i>Johnson, Vt.</i>
Smart, Raymond L.	M.E.	1926	<i>Salem</i>
Smeed, Joseph	E.E.	1929	<i>Mattapan</i>
Smethurst, Fred G.	C.E.	1929	<i>Marblehead</i>
Smethurst, James T.	M.E.	1928	<i>Chicopee</i>
Smethurst, Joseph O.	E.E.	1928	<i>Marblehead</i>
Smith, Bernard P.	E.E.	1929	<i>Brockton</i>
Smith, Clarence W.	E.E.	1926	<i>Newton</i>
Smith, Donald W.	E.E.	1929	<i>Cambridge</i>
Smith, Earl S.	Adm.E.	1929	<i>Touisset</i>
Smith, Henry M.	Adm.F.	1929	<i>Roslindale</i>
Smith, Kingman	Ch.E.	1929	<i>Waltham</i>

# SCHOOL OF ENGINEERING

NAME	DEPT.	YEAR	HOME ADDRESS
Smith, Leonard A.	E.E.	1928	W. Newton
Smith, Louis H.	C.E.	1927	Somerville
Smith, Mortimer	E.E.	1928	Rochester, N. Y.
Smith, William P.	M.E.	1926	Lawrence
Somerville, Harold M.	M.E.	1929	Lawrence
Sood, William S.	E.E.	1929	Lowell
Sorrow, Walter J.	Adm.E.	1929	New Britain, Conn.
Soule, Ralph M.	C.E.	1928	Middleboro
Souther, Shirley M.	E.E.	1927	South Middleboro
Southworth, Rodney C.	M.E.	1927	Hingham
Spadea, Joseph	E.E.	1929	Brockton
Spaulding, Harold L.	E.E.	1928	Hinsdale
Spjut, Albert B.	E.E.	1927	Ipswich
Stacy, Eliot R.	Ch.E.	1929	Webster
Staffhorst, Harry D.	M.E.	1926	Lynn
Stahle, Winslow A.	E.E.	1929	Everett
Stalbird, Frank A.	Ch.E.	1929	Swampscott
Starkey, Chester G.	E.E.	1929	Saugus
Start, Winfred P.	C.E.	1927	Bakersfield, Vt.
St. Clair, Richard T.	M.E.	1929	Wollaston
Steeves, Walter W.	Adm.E.	1929	Milford
Stein, Melvin O.	E.E.	1927	Rockport
Sternberg, Fred E.	C.E.	1929	Meriden, Conn.
Stetson, Fred T.	C.E.	1929	Whitman
Stetson, Robert C.	Ch.E.	1927	South Hanover
Stevens, Robert C.	M.E.	1929	Medford
Stewart, James C.	Ch.E.	1926	Brookline
Stewart, Robert J.	E.E.	1927	Walpole
Stilphen, Lee E.	E.E.	1929	Cedar Grove, Me.
Stimpson, Charles H. Jr.	C.E.	1926	Weston
Stocker, Robert M.	M.E.	1928	Wardsboro, Vt.
Stoddard, W. P.	C.E.	1928	Boston
Stone, Bernard W.	C.E.	1929	Holliston
Stone, Morris	C.E.	1929	Hartford, Conn.
Stone, Vernon L.	C.E.	1929	Becket
Stonefield, John W.	E.E.	1928	Scituate
Storty, W. Erwin	Adm.E.	1929	Hudson
St. Pierre, Stowell S.	E.E.	1928	Concord, N. H.
Straw, Richard S.	Ch.E.	1928	Melrose
Strout, Phillips E.	E.E.	1928	Keene, N. H.
Strout, Willard J.	C.E.	1928	Milo, Me.
Stuckert, Ernest M.	E.E.	1927	Maynard
Sullivan, Milton C.	E.E.	1928	Bradford
Sullivan, Robert J.	E.E.	1926	Boston
Sullivan, Thomas H.	E.E.	1928	Salem
Sullivan, William E. R.	Ch.E.	1928	Boston
Suomala, Henry W.	M.E.	1929	Fitchburg
Suwan, Raymond M.	M.E.	1927	Newtonville
Suwan, Eric O. H.	C.E.	1927	Proctor, Vt.
Suwan, Palmer B.	Ch.E.	1929	Danvers
Suwan, Stuart E.	Ch.E.	1927	Dale, Conn.
Suwan, Oscar E.	M.E.	1929	Everett
Sylvester, Joseph J.	M.E.	1927	South Manchester, Conn.

# NORTHEASTERN UNIVERSITY

NAME	DEPT.	YEAR	HOME ADDRESS
Sylvester, Kenneth D.	C.E.	1929	Groveland
Sylvia, Manuel F.	M.E.	1928	Nantucket
Szlanda, Stanley	C.E.	1927	Fall River
Szuch, Alec M.	Ch.E.	1929	North Walpole, N. H.
Taber, Lloyd E.	E.E.	1928	Acushnet
Taft, Leonard W.	E.E.	1928	Natick
Tansey, Joseph	Ch.E.	1929	Winchester
Tarbell, Kenneth D.	E.E.	1927	Peterborough, N. H.
Tasse, George R.	M.E.	1926	Worcester
Tassinari, Dante	C.E.	1927	East Boston
Taylor, Clarence W.	Ch.E.	1926	Allston
Taylor, William R.	E.E.	1929	Boston
Terrell, Warren E.	E.E.	1929	Waltham
Theberge, Albert R.	E.E.	1927	Lawrence
Theriault, Joseph E.	C.E.	1926	Everett
Therrien, Alfred	M.E.	1929	Holbrook
Thombs, Charles R.	Ch.E.	1929	Dorchester
Thompson, Charles W.	E.E.	1929	West Medford
Thompson, George D.	C.E.	1928	Dorchester
Thompson, George M.	M.E.	1926	Norwood
Thompson, Gordon M.	Ch.E.	1926	Andover
Thompson, Howard M.	E.E.	1929	North Easton
Thompson, Stuart W.	Ch.E.	1928	Bryantville
Thompson, William G.	Ch.E.	1928	Andover
Thurber, Edward M. Jr.	E.E.	1929	Port Hope, Ontario
Thurston, Virgil A.	C.E.	1929	Saco, Maine
Thurston, Victor A.	C.E.	1929	Saco, Maine
Tibbetts, Louis E.	E.E.	1929	Thompson's Island
Tierney, George F.	C.E.	1927	Belmont
Tighe, John G.	C.E.	1928	Boston
Tileston, Clarence C.	Ch.E.	1926	West Roxbury
Tippo, Arnold	Ch.E.	1929	Jamaica Plain
Tobey, John	C.E.	1928	Falmouth
Todd, Raymond P.	E.E.	1927	North Haven, Conn.
Todino, Frank S.	E.E.	1928	Milford
Tognazzi, John E.	C.E.	1929	Gloucester
Townsend, Henry J.	E.E.	1928	Dorchester
Trask, Philip H.	E.E.	1928	Quincy
Trask, Stanley C.	C.E.	1929	W. Quincy
Tribou, Richard C.	C.E.	1929	Hampden Hlds., Me.
Tribou, Sherwood G.	E.E.	1928	Leviston, Me.
Troccoli, Frank A.	E.E.	1926	Malden
Trow, Kenneth A.	M.E.	1929	Needham
Trowbridge, Gordon M.	Ch.E.	1929	Medford
Turner, Elmer A.	E.E.	1926	Marlboro
Tyack, Leroy C.	E.E.	1927	Waterbury, Conn.
Ufford, Edward L.	Adm.E.	1929	Auburndale
Uhlín, Nils H. R.	C.E.	1929	Kendal Green
Ulm, Kenneth S.	C.E.	1928	W. Somerville
Upham, Walter E.	E.E.	1928	Weston
Upton, Samuel E.	M.E.	1929	Peabody
Urlwin, G. J.	E.E.	1928	Somerville
Urquhart, James W.	C.E.	1926	Waltham

## SCHOOL OF ENGINEERING

NAME	DEPT.	YEAR	HOME ADDRESS
Urquhart, William J.	Ch.E.	1927	<i>E. Milton</i>
Valentine, Myron E.	C.E.	1927	<i>W. Medford</i>
Varney, Carroll F.	M.E.	1929	<i>North Brookfield</i>
Vaughan, Allan C.	Ch.E.	1928	<i>Cambridge</i>
Veeder, Ronald A.	Adm.E.	1929	<i>Woods Hole</i>
Verderame, John	E.E.	1927	<i>Southington, Conn.</i>
Vertic, John J.	C.E.	1926	<i>Lawrence</i>
Viall, George I. Jr.	Adm.E.	1929	<i>Rochester, N. Y.</i>
Vinal, Albert F.	Ch.E.	1927	<i>Brookline</i>
Vines, Wesley C.	M.E.	1928	<i>Greenbush</i>
Volpe, Sabestino	C.E.	1928	<i>Atlantic</i>
Vosmus, James J.	E.E.	1929	<i>Revere</i>
Wagner, Herbert E.	E.E.	1926	<i>Lowell</i>
Wakefield, Waldo E.	M.E.	1927	<i>Winter Harbor, Me.</i>
Walker, Elmer S.	E.E.	1927	<i>Salem</i>
Wall, Roy H.	Ch.E.	1926	<i>Worcester</i>
Walsh, Thomas S.	E.E.	1929	<i>West Roxbury</i>
Wanzer, Arthur W.	M.E.	1927	<i>Dorchester</i>
Ward, Norman E.	Ch.E.	1929	<i>Dorchester</i>
Warner, Raymond R. B.	E.E.	1929	<i>Bournedale</i>
Warren, Roland A.	C.E.	1927	<i>Boston</i>
Waters, Edward S.	E.E.	1929	<i>Natick</i>
Watt, Arthur	Ch.E.	1928	<i>North Easton</i>
Watton, Harold B.	E.E.	1929	<i>Shirley</i>
Watts, Raymond L.	Adm.E.	1929	<i>Frammingham</i>
Weatherbee, John A.	E.E.	1928	<i>Dedham</i>
Webb, G. Kenneth	E.E.	1928	<i>Kennebunk, Me.</i>
Weber, John W.		1929	<i>Wrentham</i>
Weiermiller, Otto E.	C.E.	1929	<i>Cohocton, N. Y.</i>
Weinberg, Samuel	Ch.E.	1927	<i>Boston</i>
Weinfeld, William	E.E.	1929	<i>Roxbury</i>
Welch, John E.	E.E.	1926	<i>Springfield</i>
Wentworth, Winston P.	E.E.	1928	<i>Bucksport, Me.</i>
West, Irving W.	M.E.	1928	<i>Westboro</i>
West, Kenneth W.	M.E.	1927	<i>Harvard</i>
Weston, Irving L.	E.E.	1927	<i>Lynn</i>
Wheaton, Myron E.	E.E.	1926	<i>Washington Depot, Ct.</i>
Wheeler, Lester B.	E.E.	1929	<i>Mystic, Conn.</i>
Whenman, Jack	M.E.	1926	<i>East Princeton</i>
White, Bertrand M.	Adm.E.	1929	<i>Middleboro</i>
White, Charles A.	C.E.	1929	<i>North Falmouth</i>
White, Chester E.	M.E.	1927	<i>Brockton</i>
White, Chester M.	M.E.	1929	<i>N. Middleboro</i>
White, Hamilton	E.E.	1929	<i>West Newton</i>
White, Orrin F.	C.E.	1929	<i>Belmont</i>
Whitney, Earle E.	E.E.	1929	<i>Williamstown, Vt.</i>
Whitters, Maxwell P.	Ch.E.	1929	<i>Taunton</i>
Wickerson, Clarence R.	C.E.	1926	<i>Milton</i>
Widen, Robert J.	Ch.E.	1929	<i>Danvers</i>
Wier, Henry R.	M.E.	1929	<i>Mattapan</i>
Wikdahl, Walter E.	E.E.	1928	<i>Brockton</i>
Wilber, Karl H.	C.E.	1928	<i>South Amboy, N. J.</i>
Wilder, Harold F.	E.E.	1929	<i>Dorchester</i>

# NORTHEASTERN UNIVERSITY

NAME	DEPT.	YEAR	HOME ADDRESS
Wilgren, Niilo J.	E.E.	1927	Stow
Wilkinson, F. Max	M.E.	1927	Boston
Williams, Cheney H.	M.E.	1928	Williamsville, Vt.
Williamson, James E.	Ch.E.	1927	Dorchester
Williston, Everett S.	E.E.	1928	Fall River
Willoughby, Everard G.	C.E.	1928	Berlin, N. H.
Wilson, Herbert A.	C.E.	1926	West Roxbury
Winch, Norman M.	C.E.	1928	Framingham
Winebaum, Thomas C.	C.E.	1928	Lawrence
Winshman, Alfred O.	E.E.	1928	Roslindale
Wistreich, Arthur I.	C.E.	1928	Dorchester
Witherell, Roger G.	C.E.	1926	Taunton
Witschel, H. K.	M.E.	1928	Lawrence
Witter, Edward J.	C.E.	1927	Berlin, N. H.
Wolfrum, Carl A.	C.E.	1926	Boston
Wood, Lewis H.	E.E.	1929	Northfield Farms
Woodaman, Ronald J.	M.E.	1929	Wollaston
Woodbury, Kenneth B.	M.E.	1929	South Portland, Me.
Woodhouse, Richard P.	E.E.	1929	Bristol, N. H.
Woolford, Richard M.	E.E.	1929	Plymouth
Worden, Arnold W.	E.E.	1928	Chelmsford
Works, Herbert F.	E.E.	1926	Marlboro
Worth, Arnold M.	E.E.	1926	Springfield
Wright, Walter J.	M.E.	1928	Springfield, Vt.
Wynn, Raymond A.	E.E.	1927	Torrington, Conn.
Yeunzela, John	M.E.	1928	Montello
York, James Otis	E.E.	1927	Beverly
Young, Byron H.	M.E.	1929	Sterling, Conn.
Young, Prescott D.	E.E.	1929	North Grafton
Yuill, Calvin H.	E.E.	1929	W. Bridgewater
Zager, Jacob	Ch.E.	1928	Hudson
Zalaznik, Joseph	C.E.	1928	Chelsea
Zeola, Anthony J.	E.E.	1929	Newton
Zetterlund, Ragnar A.	M.E.	1927	Worcester
Zottoli, Albert	C.E.	1928	Holden

## SCHOOL OF ENGINEERING

### RESIDENCE OF STUDENTS BY STATES AND COUNTRIES

1925-1926

Massachusetts .....	1,003
Connecticut .....	75
Maine .....	60
New York .....	32
New Hampshire .....	32
Vermont .....	23
Rhode Island .....	9
New Jersey .....	4
Pennsylvania .....	4
Arizona .....	1
North Carolina .....	1
Virginia .....	1
Nova Scotia .....	1
Ontario .....	1
Prince Edward Island .....	1
Porto Rico .....	1
Peru, S. A. ....	1
Total .....	1,250

### SENIORITY SUMMARY OF STUDENTS 1925-1926

Seniors .....	181
Juniors .....	216
Sophomores .....	295
Freshmen .....	558
Total .....	1,250

# INDEX

	Pag
Absences .....	6
Administrative Engineering.....	87,13
Administrative Officers.....	1
Admission .....	5
Admission Fee.....	5
Advisers .....	14,6
Algebra .....	9
Application Blank.....	Inside Back Cove
Application for Admission.....	5
Assignment at Engineering Practice.....	2
Assistant Professors.....	7,
Assistants .....	9,1
Athletics .....	7
Attendance .....	5
Attitude of Co-operating Firms.....	2
Board of Governors.....	6
Books and Supplies.....	1
Boston .....	2-
Calendar .....	7
Cauldron .....	2
Certificates—Educational .....	84,12
Chemical Engineering .....	4
Chemical Laboratory .....	78,10
Civil Engineering .....	40,4
Civil Engineering Equipment .....	1
Committees of the Faculty.....	6
Conduct of Students.....	29-3
Co-operating Firms.....	1
Co-operative Plan.....	7
Course of Instruction.....	87,13
Administrative Engineering.....	84,12
Chemical Engineering.....	78,10
Civil Engineering.....	82,12
Electrical Engineering.....	8
Liberal Subjects .....	80,11
Mechanical Engineering.....	2
Credits .....	5
Curriculums .....	6
Cuts .....	7
Degrees .....	11
Departments of School.....	6
Deposits, Laboratory.....	51
Design and Drafting Rooms.....	6
Discipline .....	5
Dormitories .....	50
Drafting Equipment .....	10
Drawing .....	2
Earnings .....	2
Education Certificates.....	2



# INDEX

	Page
Electrical Engineering .....	82,120
Electrical Engineering Laboratory .....	47
Electrical Measurements Laboratory .....	46
Electives .....	63
Engineering, Administrative .....	87, 135
Engineering, Chemical .....	84, 128
Engineering, Civil .....	78, 106
Engineering Conferences.....	73
Engineering, Electrical .....	82, 120
Engineering, Mechanical .....	80, 113
Engineering Practice Regulations .....	25
Engineering Societies .....	72
Enrollment .....	155
Entrance Examinations .....	54-55
Entrance Requirements .....	52
Entrance Subjects .....	53
Equipment of School.....	44-51
Examinations .....	63
Executive Council.....	7
Fees .....	62
Faculty .....	8
Faculty Committees .....	13
Fests .....	60-61
Field Instruments.....	44
Four-Year Curriculum.....	58
Fellowships .....	72
Full-Time Plan .....	35, 88
Full-Time Curriculum .....	88
General Departments .....	12,91
General Engineering .....	103
General Information .....	16
Grades .....	64
Graduation .....	75
Gymnasium .....	105
Handbook .....	71
Heads of Schools.....	7
High Schools.....	40
History of Northeastern University.....	16
Holidays .....	2-5
Industrial Chemistry Laboratory.....	49
Instruction, Subjects of.....	89
Instructors .....	9
Inter-Fraternity Council.....	72
Islands .....	26
Laboratory, Chemical .....	49
Laboratory, Deposits and Fees .....	60-61
Laboratory, Electrical .....	47
Laboratory, Mechanical .....	44
Laboratory, Physics .....	50
Lecturers, Special.....	15
General Subjects .....	35
Libraries .....	50
Literature .....	91
Living Expenses.....	62

# INDEX

	Page
Location of School.....	56
Marks .....	64
Mass Meetings.....	71
Mathematics .....	97
Mechanical Engineering .....	80,118
Mechanical Engineering Laboratory .....	44
Northeastern Union .....	73
Northeastern University Athletic Association .....	70
Northeastern University Club .....	72
Non-Collegiate Schools.....	7
Object of School.....	18
Officers of Instruction.....	8
Operations of School.....	18
Pay .....	24
Payments .....	61
Physical Training.....	51,102
Physics .....	98
Physics Laboratory.....	50
Positions Available .....	21
Positions Held by Graduates .....	70
Practical Work .....	19-20
Preparatory Schools.....	58
Prizes .....	72
Probation .....	64
Professional Departments.....	12
Program of Studies.....	77
Professional Societies.....	72
Professors .....	8
Publications .....	71
Public Speaking.....	73-92
Refunds .....	6
Requirements for Admission .....	52-53
Requirements for Graduation .....	7
Register of Students.....	158
Registration .....	52
Reports of Stauding.....	60
Residence .....	50
Scholarship .....	6
School Year.....	37,58
Scholastic Year for Seniors.....	58
Secondary Schools.....	40-41
Senate .....	72
Sessions of School.....	7
Societies .....	72
Special Advisors .....	13
Special Lectures .....	70-72
Student Activities .....	70
Student Activities Committee .....	60
Student Activities Fee .....	7
Student Activities Fund Committee .....	72
Student Council .....	158
Students, List of.....	62
Student Self-Help.....	52
Students, Special .....	52

# INDEX

	Page
tudents, Status of .....	63
tudies .....	77
subjects for Entrance .....	54
subjects of Instruction .....	89
pplies .....	61
ech" .....	71
thesis .....	103, 145
ransfer Plans.....	38
rustees .....	6
ition .....	59
ication .....	4
ork, Practical .....	19
ork, Schedules .....	26
ear Book.....	71



PASTE A SMALL  
PHOTO OR  
SNAPSHOT  
IN THIS SPACE

# NORTHEASTERN UNIVERSITY SCHOOL OF ENGINEERING

## APPLICATION FOR ADMISSION

(A fee of five dollars should accompany this application. Make checks payable to Northeastern University.)

*Fill out all four pages*

*Boston, Mass.....192....*

*To the Dean:*

*I (Name in full).....*

*hereby respectfully apply for admission to the.....*

*Engineering Curriculum of the School of Engineering for the*

*school period beginning.....19...., and submit the*

*following data:*

*Residence .....Street*

*Town .....*

*State .....Tel. ....*

*Date of Birth .....Age .....*

*Place of Birth.....*

*Parent (father's) Name.....*

*" " Address .....*

*Graduate of.....High School. Year.....*

*Location of High School.....*

*If not a graduate, state the years of attendance and why you*

*left .....*

*Name of Principal.....*

*Names and addresses of two other persons, not clergymen, to  
whom we may direct inquiries concerning you.*

(1)

(Turn to page Two)

*Why did you select Northeastern for your college work?* .....

Date.....

*CARL S. ELL, Dean,  
Northeastern University,  
School of Engineering,  
316 Huntington Avenue,  
Boston 17, Mass.*

Dear Sir:

Please furnish me additional information on the following points: .....

Name .....

No. and Street.....

City or Town.....

State .....





# **NORTHEASTERN UNIVERSITY**

## **DAY SCHOOLS**

### **SCHOOL OF ENGINEERING**

Four-year courses in Civil, Mechanical, Electrical, Chemical, and Administrative Engineering, leading to the degrees of Bachelor of Civil, Mechanical, Electrical, Chemical and Administrative Engineering. Conducted in co-operation with engineering firms. Students earn while they learn. Work conducted at Boston.

### **SCHOOL OF BUSINESS ADMINISTRATION**

Four-year courses in Business Administration leading to the degree of Bachelor of Business Administration. Students may specialize in Industrial Management, Marketing, Finance, Accounting, and Sales Management. A two-year course leading to a Junior Certificate. Conducted on the Co-operative Plan beginning in September, 1927. Work conducted at Boston.

## **EVENING SCHOOLS**

### **SCHOOL OF LAW**

*(Co-educational)*

Four-year course leading to the degree of Bachelor of Laws. Preparation for bar examinations and practice. High scholastic standards. A much larger percentage of graduates have passed bar examinations than of any other evening law school in New England. Work conducted at Boston, and in Divisions at Worcester, Springfield, and Providence.

### **SCHOOL OF COMMERCE AND FINANCE**

Five-year courses in Professional Accounting, Marketing, and Business Administration, with specialization in banking, finance, insurance, and other fields, leading to the degrees of Bachelor and Master of Commercial Science. Special two and four-year courses for those desiring intensive specialization. Work conducted at Boston, and in the Divisions at Worcester, Springfield, Providence, and New Haven.

## **NON-COLLEGIATE SCHOOLS**

### **EVENING POLYTECHNIC SCHOOL**

Three-year courses offered in the Evening Polytechnic School lead to a diploma in Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemistry or Structural Engineering. The work offered in these courses, while not as extensive as that leading to a degree, meets standard requirements. Students are trained for positions of trust and responsibility.

### **NORTHEASTERN PREPARATORY SCHOOL**

Courses in usual high school subjects leading to a diploma. Three sixteen-week terms each year. It is possible for students to meet college entrance requirements in from three to five years.

### **NORTHEASTERN AUTOMOTIVE SCHOOL**

Courses in all phases of the automotive industry with special instruction for owners, salesmen, mechanics, and chauffeurs. Classes are conducted both day and evening.

### **DEPARTMENT OF UNIVERSITY EXTENSION**

A diversified program of short intensive courses in Blueprint Reading, Public Speaking, Practical Trade Mathematics, Mechanical Drawing, Estimating, Civil Service, English for Educated Foreigners, etc.

For further information concerning any of the above schools, address

**NORTHEASTERN UNIVERSITY**

316 Huntington Avenue, Boston, Massachusetts



---

NORTHEASTERN UNIVERSITY

---

THE DAY SCHOOL  
OF  
BUSINESS ADMINISTRATION  
1926-1927

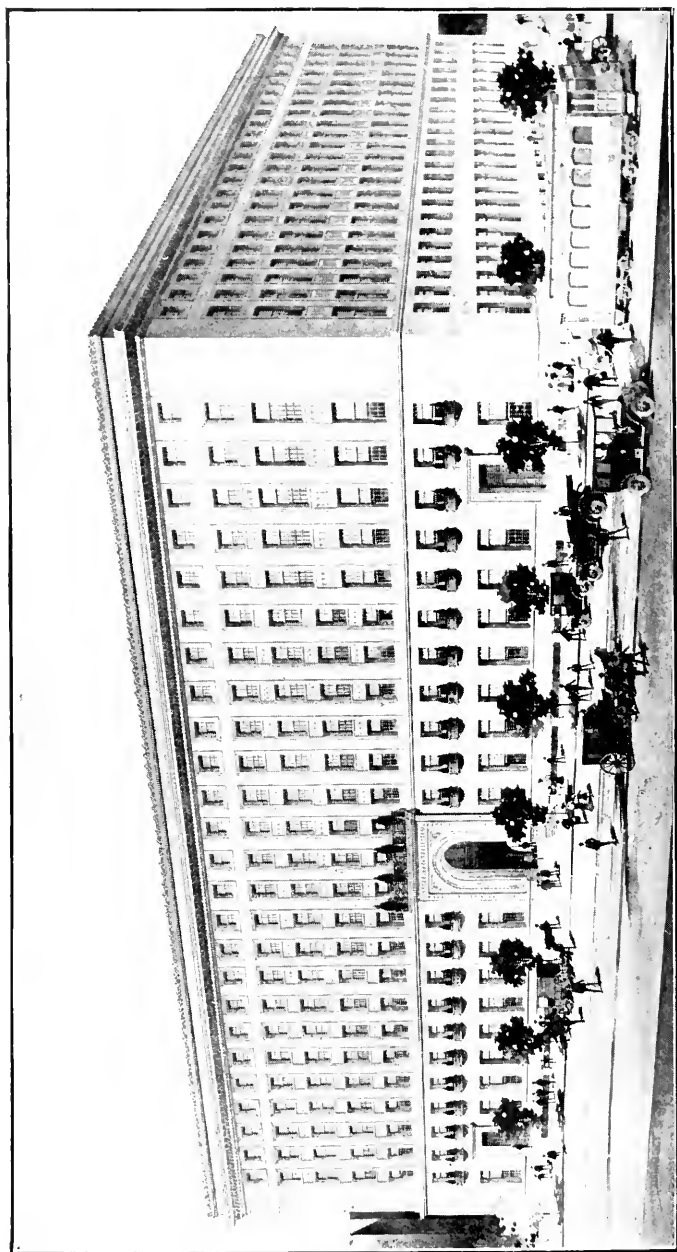


NORTHEASTERN UNIVERSITY  
BOSTON YOUNG MEN'S CHRISTIAN ASSOCIATION  
BOSTON, MASSACHUSETTS

---







Y. M. C. A. BUILDING, NORTHEASTERN UNIVERSITY  
(Main Building)

# NORTHEASTERN UNIVERSITY

---

## THE DAY SCHOOL OF BUSINESS ADMINISTRATION

Full-Time Plan

(Co-operative Plan Beginning Sept., 1927)



1926-1927

*"Principles applied in Practice."*

# SCHOOL CALENDAR

For the School Year  
1926-1927

SEPTEMBER								JANUARY								MAY							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
..	..	..	1	2	3	4		..	..	..	..	..	..	1		1	2	3	4	5	6	7	
5	6	7	8	9	10	11		2	3	4	5	6	7	8		8	9	10	11	12	13	14	
12	13	14	15	16	17	18		9	10	11	12	13	14	15		15	16	17	18	19	20	21	
19	20	21	22	23	24	25		16	17	18	19	20	21	22		22	23	24	25	26	27	28	
26	27	28	29	30	..	..		23	24	25	26	27	28	29		29	30	31	..	..	..	..	
..	..	..	..	..	..	..		30	31	..	..	..	..	..		..	..	..	..	..	..	..	
OCTOBER								FEBRUARY								JUNE							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
..	..	..	..	..	1	2		..	..	1	2	3	4	5		..	..	..	1	2	3	4	
3	4	5	6	7	8	9		6	7	8	9	10	11	12		5	6	7	8	9	10	11	
10	11	12	13	14	15	16		13	14	15	16	17	18	19		12	13	14	15	16	17	18	
17	18	19	20	21	22	23		20	21	22	23	24	25	26		19	20	21	22	23	24	25	
24	25	26	27	28	29	30		27	28	..	..	..	..	..		26	27	28	29	30	..	..	
31	..	..	..	..	..	..		..	..	..	..	..	..	..		..	..	..	..	..	..	..	
NOVEMBER								MARCH								JULY							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
..	1	2	3	4	5	6		..	..	1	2	3	4	5		..	..	..	..	..	1	2	
7	8	9	10	11	12	13		6	7	8	9	10	11	12		3	4	5	6	7	8	9	
14	15	16	17	18	19	20		13	14	15	16	17	18	19		10	11	12	13	14	15	16	
21	22	23	24	25	26	27		20	21	22	23	24	25	26		17	18	19	20	21	22	23	
28	29	30	..	..	..	..		27	28	29	30	31	..	..		24	25	26	27	28	29	30	
..	..	..	..	..	..	..		..	..	..	..	..	..	..		31	..	..	..	..	..	..	
DECEMBER								APRIL								AUGUST							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
..	..	..	1	2	3	4		..	..	..	..	..	1	2		..	1	2	3	4	5	6	
5	6	7	8	9	10	11		3	4	5	6	7	8	9		7	8	9	10	11	12	13	
12	13	14	15	16	17	18		10	11	12	13	14	15	16		14	15	16	17	18	19	20	
19	20	21	22	23	24	25		17	18	19	20	21	22	23		21	22	23	24	25	26	27	
26	27	28	29	30	31	..		24	25	26	27	28	29	30		28	29	30	31	..	..	..	
..	..	..	..	..	..	..		..	..	..	..	..	..	..		..	..	..	..	..	..	..	

Periods when school is in session indicated by bold face type  
Periods when school is not in session indicated by italic type



# School of Business Administration

---

## CALENDAR 1926-1927

---

1926

SEPTEMBER 9

Freshman Preliminary Registration

SEPTEMBER 9-11

Condition Examinations

SEPTEMBER 13

Registration and First Tuition Payment

SEPTEMBER 14

First Semester Formal Opening

SEPTEMBER 29

Faculty Reception to all Students

OCTOBER 6

Intelligence Test for Freshmen (classes omitted in forenoon)

OCTOBER 12

Columbus Day (classes omitted)

OCTOBER 18-23

First Monthly Hour Examination for all Classes

NOVEMBER 18-24

Second Monthly Hour Examination for all Classes

NOVEMBER 25-28

Thanksgiving Recess

DECEMBER 1

Second Tuition Payment

DECEMBER 9

Home Folks Day (classes omitted)

DECEMBER 13-18

Third Monthly Hour Examination for all Classes

DECEMBER 19 to JANUARY 2

Christmas Recess

# Northeastern University

---

## CALENDAR 1926-1927 (Continued)

---

1927

JANUARY 22

First Semester Closes

JANUARY 24-31

Mid-year Examinations

FEBRUARY 1

Second Semester Formal Opening

FEBRUARY 9

Final Tuition Payment

FEBRUARY 22

Washington's Birthday (classes omitted)

FEBRUARY 22-26

Half-hour Tests for all Classes

MARCH 14-19

Fourth Monthly Hour Examination for all Classes

APRIL 10-17

Easter Recess

APRIL 13-15

Half-hour Tests for all Classes

APRIL 19

Patriots' Day (classes omitted)

APRIL 25-28

Fifth Monthly Hour Examination for all Classes

MAY 28

Second Semester Closes

MAY 30

Memorial Day (classes omitted)

MAY 31

Final Examinations begin

JUNE 17

Bunker Hill Day (classes omitted)

JUNE 19

Baccalaureate Address

JUNE 20

Commencement

# School of Business Administration

---

## TRUSTEES

### CHAIRMAN

ARTHUR STODDARD JOHNSON

### VICE-CHAIRMAN

ALBERT HARMON CURTIS

### SECRETARY

GALEN DAVID LIGHT

WILMAN EDWARD ADAMS	GEORGE CABOT LEE
ALFRED HARLOWE AVERY	HENRY GARDNER LORD
WASHINGTON IRVING BULLARD	ERNEST LOVERING
WILLIAM CONVERSE CHICK	FRANCIS POPE LUCE
WALTON LEE CROCKER	WILLIAM EVERETT MACURDA
LEWIS ABBOTT CROSSETT	MILTON CRAWFORD <sup>2</sup> MAPES
ROBERT GRAY DODGE	EDWARD FULLER MINER
HENRY BRADLEE FENNO	ARTHUR PERRY, JR.
BENJAMIN A. FRANKLIN	THOMAS HASTING RUSSELL
FRANKLIN WILE GANSE	SABIN POND SANGER
BENJAMIN WRIGHT GUERNSEY	CHARLES PECK SISSON
JOHN HENRY HARWOOD	FRANK PALMER SPEARE
ARTHUR LEE	FRANCIS ROBERT CARNEGIE STEELE

---

## BOARD OF GOVERNORS

### CHAIRMAN

ALBERT HARMON CURTIS

### SECRETARY

GALEN DAVID LIGHT

WILMAN EDWARD ADAMS	ROBERT GRAY DODGE
ASA SAMUEL ALLEN	ARTHUR STODDARD JOHNSON
WILLIAM CONVERSE CHICK	WILLIAM EVERETT MACURDA
WALTON LEE CROCKER	FRANK PALMER SPEARE
ALBERT BROWNE CURTIS	FRANCIS ROBERT CARNEGIE STEELE

# Northeastern University

---

## GENERAL OFFICERS OF THE UNIVERSITY AND THE EXECUTIVE COUNCIL

FRANK PALMER SPEARE, LL.B., M.H.  
President of the University

GALEN DAVID LIGHT, A.B.  
Secretary and Comptroller of the University

CARL STEPHENS ELL, A.B., M.S.  
Vice-President of the University

EVERETT AVERY CHURCHILL, A.B., Ed.D.  
Vice-President of the University

---

## HEADS OF SCHOOLS

### Collegiate Schools

SCHOOL OF ENGINEERING  
*Carl Stephens Ell, A.B., M.S., Dean*

SCHOOL OF BUSINESS ADMINISTRATION  
*Turner Flowers Garner, A.M., Ed.M., Dean*

SCHOOL OF LAW  
*Everett Avery Churchill, A.B., Ed.D., Dean*

SCHOOL OF COMMERCE AND FINANCE  
*Carl David Smith, B.H., Ed.M., Dean*

---

### Non-Collegiate Schools

EVENING POLYTECHNIC SCHOOL  
*Thomas Edward Penard, S.B., Associate Dean*

NORTHEASTERN PREPARATORY SCHOOL  
*James Wallace Lees, A.M., Principal*

NORTHEASTERN AUTOMOTIVE SCHOOL  
*Howard P. LeFavour, Principal*

DEPARTMENT OF UNIVERSITY EXTENSION  
*James Wallace Lees, A.M., Director*

---

## SPECIAL ADVISORS

FRANK BONNYMAN CAWLEY, B.S.  
*Director of Physical Education*

CLARENCE CARDWELL BEASLEY  
*Director of Religious Education*

# School of Business Administration

---

## OFFICERS OF ADMINISTRATION

FRANK PALMER SPEARE, LL.B., M.H. <i>President of the University</i>	483 Boylston St., Brookline
GALEN DAVID LIGHT, A.B. <i>Secretary and Comptroller of the University</i>	815 Centre St., Jamaica Plain
CARL STEPHENS ELL, A.B., M.S. <i>Vice-President of the University</i>	52 Clement Ave., West Roxbury
TURNER FLOWERS GARNER, A.M., Ed.M. <i>Dean</i>	85 Hillside Ave., West Newton
WINTHROP ELIOT NIGHTINGALE, A.B., S.B. <i>Director of Co-operative Work</i>	36 Dickerman Rd., Newton Hlds.
HAROLD WESLEY MELVIN, A.B. <i>Director of Student Activities</i>	155 Blue Hill Ave., Milton
MILDRED COY CURTIS <i>Secretary to the Dean</i>	104 School St., Roxbury
KATHRYN CHANDLER <i>Recorder</i>	49 Symmes St., Roslindale
CAROLYN ESTHER HENDERSON <i>Assistant Secretary of the University</i>	20 Charlesgate West, Boston
J. KENNETH STEVENSON <i>Bursar of the University</i>	25 Hammond St., Cambridge
MYRA EDNA WHITE <i>Librarian of the University</i>	165 Hemenway St., Boston

# Northeastern University

---

## FACULTY

FRANK PALMER SPEARE, LL.B., M.H. <i>President</i>	483 Boylston St., Brookline
GALEN DAVID LIGHT, A.B. <i>Secretary</i>	815 Center St., Jamaica Plain
CARL STEPHENS ELL, A.B., M.S. <i>Vice-President</i>	52 Clement Ave., West Roxbury
TURNER FLOWERS GARNER, A.M., Ed.M. <i>Dean</i>	85 Hillside Ave., W. Newton
<hr/>	
ROBERT BRUCE, M.C.S. <i>Professor of Accounting</i>	53 Harley Ave., Everett
PAUL BROWN COFFMAN, B.S. <i>Instructor in Accounting</i>	22 Prescott St., Suite 4, Cambridge
PAUL EVANS COLEMAN, B.S., B. of Ed., M.A. <i>Instructor in Industrial Management</i>	362 Harvard St., Cambridge
ALFRED D'ALESSANDRO, B.C.S., C.P.A. <i>Instructor in Accounting</i>	103 Orchard St., Somerville
ARTHUR GALEN EUSTIS, A.B. <i>Instructor in Business Administration</i>	62 Perkins Hall, Cambridge
TURNER FLOWERS GARNER, A.M., Ed.M. <i>Professor of English &amp; Marketing</i>	85 Hillside Ave., West Newton
SHIRLEY WILCOX HARVEY, A.B., A.M. <i>Instructor in English</i>	18 Ware St., Cambridge
RICHARD LOVEJOY HAYES, A.B. <i>Lecturer in Investment Analysis</i>	Halsey, Stuart & Co. Inc. 82 Devonshire St., Boston
WILLIAM CARL HULTGREN <i>Instructor in Physical Training</i>	41 Mendlesohn St., Roslindale
GORTON JAMES, A.B., S.B. <i>Instructor in Industrial Management</i>	15 Shepard St., Cambridge
CLARENCE ELMER JOHNSTON, M.A., B.Litt. (Oxon), M.B.A. <i>Instructor in Business Finance</i>	19 Trowbridge St., Suite 3, Cambridge
COOPER HAROLD LANGFORD, A.B., Ph.D. <i>Instructor in Psychology</i>	6 Emerson Hall, Cambridge
HAROLD WESLEY MELVIN, A.B. <i>Professor of English</i>	155 Blue Hill Ave., Milton
RAYMOND BROWNOLD MILLER, A.B., A.M. <i>Associate Professor of Economics</i>	92 Lexington Ave., West Somerville

# School of Business Administration

---

## FACULTY (Continued)

- JOHN RICHARD MOORE, A.B., A.M. 20 Conant Hall, Cambridge  
*Instructor in English*
- NICHOLAS ELLSWORTH PETERSON, M.A., M.B.A.  
*Lecturer in Business Statistics* The First National Bank, Boston
- ROYAL ARLINGTON ROBERTS, B.A., M.B.A. 58 Pinckney St., Boston  
*Associate Professor of Marketing & Advertising*
- JOHN JAMES SINNETT 24 Bardwell St., Jamaica Plain  
*Instructor in Physical Training*

## ASSISTANTS

- CHESTER JOSEPH ALLEN 525 Newbury St., Boston  
*Head Monitor*
- THEODORE CRAWFORD 525 Newbury St., Boston  
*Assistant in Accounting*
- JOHN EVERETT RICH 525 Newbury St., Boston  
*Assistant in Accounting*
- JAMES ARMISTEAD MITCHELL 33 Concord Ave., Cambridge  
*Assistant in Marketing & Merchandising*

## VARSITY COACHES

- RUFUS HALLOWELL BOND, A.B. 131 Grant Ave., Medford  
*Basketball, Baseball*
- JOHN ORRIN COPLEY 52 Cherry St., Medford  
*Minor Sports*
- EDWARD SNOW PARSONS, B.C.E. 42 St. Stephen St., Boston  
*Graduate Manager of Athletics*
- JOSEPH WILLIAM ZELLER, S.B. 1583 Worcester Rd., Framingham  
*Track*

# Northeastern University

---

## FACULTY COMMITTEES

---

### FACULTY REVIEWING COMMITTEE

DEAN GARNER                      PROFESSOR BRUCE, *Chairman*  
   PROFESSOR MELVIN

### FACULTY CLASS ADVISORS

ROYAL A. ROBERTS	CLASS OF 1926
RAYMOND B. MILLER	CLASS OF 1927
ROBERT BRUCE	
ALFRED D'ALESSANDRO	CLASS OF 1928
TURNER F. GARNER	
ROBERT BRUCE	
TURNER F. GARNER	CLASS OF 1929

### ATHLETICS

#### A. FACULTY COMMITTEE

WINTHROP E. NIGHTINGALE, *Chairman*  
TURNER F. GARNER                      JOHN B. PUGSLEY  
ARTHUR B. MONTGOMERY              JOSEPH SPEAR

#### B. GENERAL ATHLETICS

JOSEPH SPEAR, *Chairman*  
RUFUS H. BONS                      EDWARD S. PARSONS  
JOHN O. COPLEY                      JOSEPH W. ZELLER  
TURNER F. GARNER                      CAPTAIN OF EACH SPORT

### STUDENT RESEARCH COMMITTEE

TURNER F. GARNER, *Chairman*  
ROBERT BRUCE                      ALFRED D'ALESSANDRO

### FRATERNITIES

ROBERT BRUCE, *Chairman*  
GORTON JAMES                      RAYMOND B. MILLER  
   ROYAL A. ROBERTS

### STUDENT ACTIVITIES

PROFESSOR MELVIN, *Director*



# School of Business Administration

---

## LECTURERS

FRANK PALMER SPEARE  
*President, Northeastern University*

FRANCIS ROBERT CARNEGIE STEELE  
*Resident Partner, Patterson, Teele & Dennis*

WALTON LEE CROCKER  
*President, John Hancock Life Insurance Company*

WILLIAM SUMNER KEMP  
*Treasurer, Holtzer-Cabot Company*

JOSEPH EDWARD MASTERS  
*Resident Partner, Price, Waterhouse & Company*

MATTHEW POROSKY  
*Chairman of the Factory Management Committee, Holtzer-Cabot Company*

GEORGE H. MONTGOMERY  
*Assistant Treasurer, Batchelder & Snyder Company*

JOHN E. WILSON  
*Vice-President and General Manager, Batchelder & Snyder Company*

REV. HENRY H. CRANE  
*Center Methodist Church, Malden*

RABBI HARRY LEVI  
*Temple Israel, Boston*

REV. P. A. A. KILLAM  
*Brighton Avenue Baptist Church*

REV. NEWTON C. FETTER  
*First Baptist Church of Boston*

PROFESSOR FREDERICK G. NICHOLS  
*Harvard University*

PROFESSOR WILLIAM W. FENN  
*Harvard University*

ROBERT FECHNOR  
*International Association of Machinery*

WHITING WILLIAMS  
*Investigator and Lecturer on Labor Subjects*

HARRISON S. COLBURN  
*Industrial Real Estate Specialist, Harrison S. Colburn Company*

## *Foreword*

### THE STUDENT AND THE SCHOOL

NORTHEASTERN UNIVERSITY recognizes and stresses the fact that the student of business is going to be not only a business man, but also a business man keen enough to understand that for his highest success he must perform his duties as a citizen.

The following recommendation from a master in one of the Boston Schools, concerning a student in the School of Business Administration, describes the type of manhood which Northeastern University seeks:

"In all my twenty years' teaching experience, I have never seen a better boy. I would trust him with anything. I would employ him in any capacity. There are very few boys today that I would be willing to say that of. I cannot recommend him too highly."

Personal, social, and civic efficiency—skill, knowledge, ability that command respect; power which directs business upbuilds communities, enriches life for others—that strength of mind and Christian character the School of Business Administration stresses above all else in the life of every student who comes under its influence.

Students who lend themselves willingly to such an influence constitute the bulk of the student body. The School will continue selecting that type for its enrolment.

## UNIVERSITY INFLUENCE IN COMMERCE AND INDUSTRY

Here and there, highly capable men working up from the bottom may, without a business education, become executives in a comparatively short time through industriousness and genius. But in the normal run of business, for the untrained man, the road from first employment to the executive desk is long and uncertain in spite of the fact that business increasingly needs capable executives.

Statistics indicate that about ninety per cent of college-trained business men rise to large-salaried, responsible positions, in contrast to twenty-five per cent of the non-college-trained. The reasons for this marked difference appear in the following sections:

### I. REVOLUTION IN BUSINESS ORGANIZATION AND METHODS

Before the Industrial Revolution, when business was very simple, men were not professionally trained for commerce but came generally to understand primarily the practices of a particular business rather than the underlying principles of all business which determine the practice of a particular organization. This understanding came through mastery of detail in a particular organization by a long and slow progress from minor positions to higher ones.

Such apprenticeship methods were, perhaps, adequate in a period when the bewilderingly complex organization of modern business did not exist.

### II. MODERN BUSINESS DEMANDS UPON EXECUTIVES

Today, our complex business organization, for the sake of efficiency, demands of the worker a marked degree of specialization, while compelling the executive to be both a specialist in some one field and at the same time a master of organization and administrative principles.

Since the worker must be limited to a special job, he has but a slight opportunity to get that range of experience and broad knowledge of business which alone can advance him to the higher positions. The untrained employee almost invariably learns only the details of his own job. This acquaintance with mere facts and detail may prove sufficient for mechanical performance; but broad knowledge of universal principles and ability to apply them are unfailingly demanded of the executive who is to shape the policies of manufacturing concerns or of wholesale and retail houses.

Everywhere today business men are compelled to a deeper understanding of the principles underlying business operations. The paths of business are strewn with wreckage caused by the fact that many untrained minds have ventured beyond their special job. So sharp is competition, so great is the demand for fundamental and broad knowledge of business principles that our national and local Chambers of Commerce have been reorganized to help meet the demand; manufacturing and merchandising associations have been overhauled to function as a medium of exchange of knowledge; labor unions have undergone vital changes resulting in a plan to establish labor colleges for the study of economic and sociological principles underlying industry and life; and great institutions of business research with vast wealth behind them have been organized to place at the elbow of the executive those business tools without which his program is largely one of guesswork.

College instruction in the science of business has helped to reduce guesswork to a science and has thereby narrowed the wide gap between employee and executive. College instruction in business has passed the uncertain period of experiment; it has demonstrated concretely the fact that through such instruction young men can master details of business more quickly than they otherwise could and, at the same time, can get a grasp upon broad and basic principles impossible to acquire readily from the day-by-day job.

There is marked evidence of these facts. First of all, thousands of business houses contribute liberally to colleges of business administration and co-operate with them in the guidance and placement of graduates and undergraduates. Chambers of Commerce throughout the world heartily co-operate with such colleges, many in fact depending upon these institutions to supply trained Chamber of Commerce secretaries. Indeed, in some universities, business men have endowed special schools as a source of supply for highly trained men. Some concerns, at a distance from these schools, finding that their employees could not through experience alone advance regularly to minor and major executive positions, established schools of their own.

### III. PROFESSIONAL EDUCATION DEMANDED

There are at least five conclusive proofs that for a quarter of a century a high professional business education has been demanded as against the old-time threadbare commercial training. First, educational history shows that no highly special kind of education ever arose except to meet a growing need. That being true, the rapid development of professional colle-

giate business education throughout the country since 1880 is unmistakable proof that the need exists, for business education is a highly special type of education. Secondly, many non-collegiate business schools which formerly stressed primarily business arithmetic, stenography, bookkeeping, typewriting, and other elementary forms of business, have on the whole shifted their emphasis from these minor factors to the major aspects of business organization and administration. In the third place, many such schools, not permitted by the government to confer degrees, broadly advertise courses of college grade. Finally, business itself has advanced from a position of insignificance to a professional rank that commands the utmost respect of all; and at the same time business practices have come under the direction of great economic, social, ethical laws which mark the field as a profession. Men who have grounded themselves in these fundamental laws are advancing to high positions of leadership in all forms of business, and more rapidly in general than the untrained men.

#### IV. HIGH PROFESSIONAL EDUCATION PROVIDED BY SCHOOLS OF BUSINESS ADMINISTRATION

Ex-President Eliot of Harvard, speaking of business education some years ago, said: "I believe commerce and industry in their higher ranges to be eminently intellectual pursuits, and I know of no other intellectual calling for which a professional school is not now provided. To deny that young men may be systematically trained for industry and commerce is to assert that industry and commerce are merely imitative arts to be acquired only by seeing other people do the tricks and then practicing them. In industry and commerce all things are become new; and new methods of preparing young men for these occupations must be invented with discriminating foresight, established with prudence, and maintained with liberality."

These facts do not mean that graduates of the college of business administration will at once be able to assume important administrative positions. These graduates must continue to work hard, study hard, and plan hard; but because of their intimate knowledge of fundamentals of business organization and practices as a whole, of interlocking factors in business—Economics, Business Cycles, Corporation Finance, Factory Administration, Accounting, Commercial Law, Production, Distribution, Advertising, Sales Management—they can forge ahead more rapidly into the executive rank.

The reason is clear. Intricacy of organization and complexity of operation of present-day business render it almost impossible for experience alone to develop that broad perspective of

organization as a whole without which a director of business hazards ruin. This broad perspective demands not mere facts but also an attitude of mind—that executive power which can initiate plans and put them into effective operation. In plain words, that point of view and that habit of mind characteristic of sound executive thinking and judgment result not so surely from experience in details as from thorough knowledge of universal principles. Executive leadership demands precisely that attitude of mind; the University proposes to develop it.

“It used to be the fashion to study medicine by cleaning the doctor’s horse and buggy, grinding his drugs, and driving him around to make his calls; and the study of law by copying deeds and briefs in a lawyer’s office and reading books taken from the lawyer’s little library in the intervals of clerical labor; but the world has now learned that there is a better way of studying medicine and law—namely, by going to a professional school, where progressive, systematic instruction rapidly developed is to be had.”

The same fact applies to education for business; professional training is required in principles as well as in detail.

Such training is best gained in the university. Within the last fifty years, primarily because of the industrial revolution which made business intricately complex, business has become a profession and collegiate commercial education has become a professional education just as that of medicine and law.

Colleges recognize the fact that today business demands managers, not rank and file. While executives must grasp the meaning of detail, they even more must comprehend detail in the light of those broader principles affecting all business. Hence, as in law and medicine, business education prepares for a profession, not for a mere job, although the job may be the starting point.

In fine, modern business requires men of broad vision and large mental grasp upon the facts and principles combined in industry and commerce. Business has become more nearly a science, business administration a profession. The university offering commercial education prepares for business as a science and as a profession—and in no other light whatsoever.

This scientific and professional education has played and increasingly plays a vital part in broadening the student’s background, in expanding his native powers, and in enabling him to stride forward to a position of importance, as well as to be a constructive leader in his community.

## V. RESPONSE OF UNIVERSITIES TO BUSINESS NEEDS

To meet these demands of modern business for broadly

educated executives, American universities have, since 1897, quite generally established departments of business administration. Some have organized separate business schools. All have recognized the fact that these schools cannot supplant experience; rather they supplement it by re-enforcing detail knowledge, gained through individual experience, with the broad knowledge of universal principles accessible through recorded experience of thousands of executives and through the study of the economic, psychological, and sociological principles underlying experience.

#### HISTORY OF NORTHEASTERN UNIVERSITY

The incorporation of Northeastern University of the Boston Young Men's Christian Association in March, 1916, marked the culmination of a notable development. The University is the realization of an ideal carefully worked out and persistently followed for many years. One of the first lines of endeavor of the Boston Young Men's Christian Association, after its establishment in 1851, was the opening of evening classes for young men. It was not, however, until 1896, that the actual foundations for the University were laid. The larger number of courses offered require a more comprehensive organization. Gradually the courses were grouped under separate schools and additional courses were offered to complete the curriculum of each school.

The School of Law, established in 1898, was incorporated in 1904 with degree-granting power. Founded in 1907, the School of Commerce and Finance was authorized in 1911 to confer the degrees of Bachelor and Master of Commercial Science. The School of Engineering was opened in 1909 and given power in 1920 to confer the following degrees: Bachelor of Civil Engineering, Bachelor of Mechanical Engineering, Bachelor of Electrical Engineering, and Bachelor of Chemical Engineering. In addition, the Evening Polytechnic School, the Huntington School for Boys, the Northeastern Preparatory School, the Automotive School, and the Vocational Institute are conducted under the administration of the University. In March, 1923, the University was granted general degree-granting power by the Massachusetts Legislature. Divisions of the University offering evening instruction have been established at Worcester, Springfield, New Haven, and Providence.

## A DAY SCHOOL WITH A DISTINCTIVE PURPOSE

For some time, officials of the University had purposed to establish a distinctive Day School of Business Administration. In September, 1922, the School of Business Administration was formally opened and the first class admitted. A sound and normal curriculum was established dealing in the fundamental facts and principles of business such as Accounting, Economics, Law as it applies to business organization and operation, Business Statistics, Industrial Finance and Management, Distribution, Banking, and the related subjects. The School of Business Administration, Northeastern University, is distinctive in the following points.

- (1) Since the building of character constitutes one of the most distinctive services which education can render, the School particularly fosters the development of four-square character and all-round manhood. No attempt is made to influence students to participate in any activity contrary to the tenets of their individual religion.
- (2) Teacher-student equality, whereby the relation of senior executive and junior workers is maintained, distinguishes the attitude of the faculty to the student body and vice versa.
- (3) The problem method of study is used exclusively in most classes and in large part in all other classes, making it possible for students to learn by reasoning rather than by rote.
- (4) Believing in the ability of college men to govern themselves, a large part of the activities of the student body are controlled and regulated by the students themselves.

The doors of the School opened formally in September, 1922, to a body of thirty-nine students carefully selected. So marked were the results of the first year that the second opened with 100 students, the third with 175, necessitating a restriction upon the freshman enrolment for 1925-26. Two hundred thirty-five students were enrolled in the fourth year of the School's existence.



## SPECIFIC EDUCATIONAL AIMS

The following aims, partially responsible for the recognition accorded the School, constitute its educational policy.

*First:* To offer that type of education for business which will enable students to select more advisedly the field of business best suited to their aptitudes.

*Second:* To build for breadth of perspective in preference to over specialization with its narrowing effects; therefore, to eliminate haphazard selection of courses, through concentration upon balanced, carefully co-ordinated curriculums, and, thus, to provide an adequate background for specialization as need arises.

*Third:* In accordance with the highest development in education for business, to provide primarily a sound knowledge of fundamental business laws through systematic study of basic business methods, practices, principles.

*Fourth:* To develop habits of accurate thinking essential to sound judgment; to develop analytical power, because of its effectiveness as a method of approach to the executive's problems.

## METHODS OF INSTRUCTION

In order that these aims may be realized, the School has rejected the traditional lecture methods. Of course, there must always be lectures; nevertheless, where possible, the problem and the case method obtain instead. Sheer textbook reading is almost valueless; students tend to accept without question what the textbook presents. Instead, they should learn to analyze every proposition, to challenge unsupported assertions, to think independently, and to support their thinking with logic and facts.

Hence, concrete problems and cases which executives have faced in Accounting, Marketing, Organizing, and the like, constitute the bulk of class work. Students analyze problems, break them into their constituent parts, discover and list the factors for and against possible solutions, and work out a logical conclusion. In class they discuss their work with their instructors in the light of the latter's broader knowledge and, so, whenever possible, of the experience of executives who have actually faced these problems and have drawn their own conclusions and put them into operation. Thus the student can project his own judgment against the experiential background of business.

Such a method tends to develop an executive attitude. No lecture or mere reading of textbooks can do so. Students gain skill and facility in solving problems by actually solving hun-

dreds and thousands of them, thereby accumulating a ripe experience seldom open to the petty employee buried in routine and mechanical detail. What counts in business, as elsewhere, is not solely whether one possesses so much knowledge but whether one can through his knowledge logically and effectively solve the problems he confronts, or even prevent problems from arising. Experience in solving typical problems provides a background for anticipating and forestalling similar ones as well as for solving others that may arise.

## SIZE OF CLASSES

Mere smallness or largeness of numbers in class work has slight significance. Some of the least effective education goes on in many small classes and some extremely effective education characterizes many large classes.

There are certain types of studies which commonly require small classes. Numerous other studies are presented with equal or greater effectiveness in large classes. For example, law schools in general have bulky classes: yet the teaching of law represents, by and large, highly effective education. This fact is equally true in the fields of Economics, History, and Accounting.

Accordingly, in subjects which require small groups the classes will be small. On the other hand, in subjects which may be presented with equal effectiveness in large groups the classes will be larger. The nature of the work involved and effective teaching in the broadest sense constitute the determining factors in each case. The student is the chief concern, not the size of the class.

## STUDENT BODY

Students are carefully selected. They must present at least fifteen units of credit from approved public high schools or private academies of corresponding rank; they must offer grades ranging from "pass" to honor grades; they must present evidence of participation in their school's activities; they must present character recommendations from (a) some teacher familiar with their work and character, (b) some school official other than the teacher, and (c) two disinterested business men. In the final determination of a student's admission, data from all sources are taken into account. No student will be admitted unless evidence indicates that he can profit thereby.

## EDUCATIONAL AND VOCATIONAL GUIDANCE

Northeastern University includes in its responsibility to students not only scientifically constructed courses of instruction but also, to the extent of its power, scientific educational guidance.

This guidance and study should go hand in hand. The student should not be left to grope his way blindly; every facility of educational research should be placed at his disposal both to help him bridge the gap between high school and university methods and also to eliminate as far as possible the terrific wastage of time involved in the trial and error approach to choosing a career and preparing for it.

The School of Business Administration from the standpoint of student guidance utilizes the following methods:

### I. LECTURES ON ORIENTATION

A student coming from a secondary school to a university finds that his whole life has undergone a sudden change.

Educationally he is thrown upon his own responsibility in the matter of discipline and study; socially, he has entered an entirely different environment with conflicting claims; financially, he is challenged with a more independent administration of his personal affairs; morally, he finds new temptations and perplexing questions which he must successfully meet. Further than this, if not continuing to live at home, he finds that he has not that ready counsel and advice of his parents which he has had up to this time.

To help students adjust themselves to these new conditions, a series of meetings will be held on the Thursday, Friday, and Saturday preceding the formal opening of school. All freshmen will be required to report at the School for this Orientation period.

In addition, all freshmen are required to take a half-year course in the problem method of study, deducing therefrom the principles of study in general and methods of application.

### II. SPECIAL LECTURES

Assemblies are held at regular periods, upon which attendance of students is required.

At these assemblies lecturers, each a specialist in a distinct field, lay before the student the results of their experience. The lecturers are, for the most part, prominent business and professional men. They are selected in such a way as to present to the students the broader phases of human relationships and to

lead to an appreciation of the complex problems of social life and of the necessity for broadly trained citizenship.

In many instances special lecture periods culminate in an open forum in which students have the privilege of asking questions on particular points brought out by the lecturer. Conferences may also be arranged with him for discussing personal problems.

### III. PERSONAL AND GROUP SURVEYS OF BUSINESS

As constantly as possible, in all study, practical operations should be linked with theory. To provide that combination, certain courses involve field trips to business organizations and industrial concerns where students make surveys of location, equipment, organization, and methods. Such vital contact results from the co-operation of certain commercial and industrial concerns which invite inspection of their plants and study of their problems and methods. Thus, not infrequently, the manager or president of an organization reveals to these students plans, problems, and methods that books do not commonly touch. In turn, the students utilize the knowledge, experience, and facts so gained as the basis of written reports, of analysis, and of criticism, in the light of those fundamental principles studied in class.

### IV. BUSINESS EXPERIENCE

Valuable as these trips and surveys are they do not test the student's business ability and interest. Therefore, in addition to practical surveys, actual business experience is deemed fundamental during the course of student's training, both as a supplement to his studies and as a preparation for business activities. For this reason the co-operative plan described hereinafter will become effective as stated.

The University, while not definitely promising employment to students, will assist, to the best of its ability, in placing both undergraduates and graduates in desirable positions.

### V. VOCATIONAL RESEARCH

Second-year students take a course in the study and analysis of business fields with respect to opportunities, limitations, demands. Each person selects a limited number of vocations for study. This course enables the student to decide more wisely in regard to his career and, accordingly, to choose his field of specialization more advisedly for the last two years of his college education.

## VI. PERSONNEL ANALYSIS

In connection with each of the preceding methods of guidance, the School makes an intimate study of the student's personality, interests, and ability. A student, at the time of admission or shortly thereafter, must meet the following requirements:

- (a) Pass a general intelligence test.
- (b) Have a personnel analysis on the basis of:
  - (1) A carefully drafted questionnaire.
  - (2) A personal interview with the Dean or a faculty adviser.
- (c) Furnish references from whom may be obtained information which may be of value in the analysis of the individual student.

## VII. GUIDANCE

On the basis of the data secured, which take into account the various factors of the student's personal history, the School offers guidance along the following lines:

(a) *Personal Development.* Each student is assigned to an adviser who confers with him regularly throughout the school year. This adviser has available for guidance in counseling a student the information which has been assembled in the School office. Attention is not only given to the problems of the student in connection with his studies, but the service is extended to include advice upon any problem in which advice is needed and desired, the aim being to guide the student to the fullest possible personal development.

(b) *Individual Ability.* The school record of each student is carefully analyzed in the light of what could reasonably be expected of him, considering his previous school record, his score on the psychological test, and the other factors in his case. If he is not doing his best work, an investigation is made to determine and eliminate the causes. If he is doing as well as could be expected or better, he is encouraged to continue to do so. In other words, each student is held to the most effective work possible through advice, encouragement, and assistance.

(c) *Business Career.* Each student, on the basis of his historical record of his college grade, of his personal analysis, and of his accomplishment in the university, acquires a much more definite knowledge as to his adaptability to business and the general field in which he is most likely to succeed. This guidance is presented carefully not with the purpose of choosing for the student, but rather of assisting him to analyze his problem and make a choice for himself.

(d) *Change of Goal.* Students obviously not adapted to the type of work offered, will be definitely and frankly advised to change their goal and type of training. In some instances, this change will necessitate transfer to another institution.

This sevenfold plan of guidance constitutes the chief contribution of the School from the standpoint of helping the student to measure himself and to choose his career. Equally constructive methods are involved from the viewpoint of that educational training which, while helping the student to make his choice more advisedly, will also prepare him to meet more successfully the demands of the business he enters.

## THE CO-OPERATIVE PLAN

The success of the School of Business Administration from the day of the opening has been steady and remarkable. Starting with a group of thirty-nine young men in 1922, the freshman class has steadily increased in size, while the upper classes have maintained an unusually large percentage of the original entering classes. Thus, thanks to skilled organization and management, high-grade instruction, and careful handling of the details in all departments of the work, today the School is attended by more than 225 young men, and has won for itself an enviable position among educational institutions.

Having completed this first epoch with success, it now enters into its second stage of development, marked by the introduction of the Co-operative Plan. For the present the freshman and sophomore classes will continue on the conventional full-time basis, attending school daily throughout the academic year. Beginning with the senior year, however, in 1927 and with the junior and senior years in 1928, these classes will go upon the co-operative plan. This plan has gained widespread commendation.

Under the co-operative plan two boys, A and B, though they may be total strangers to each other and live in different cities, enter the University, A attending classes regularly daily for five weeks and following the regular routine of the University, while B, his alternate, is placed with some business house in a wage-earning position. B, conforming to the rules of his business house, will work the regulation hours and will be paid for his services. This arrangement will continue for five weeks without interruption. At the end of the five-week period A will suspend his college work and enter the business house where B started, taking up B's work and carrying it on, while B will enter the University and take up the same class work which A had, during the preceding five weeks. This plan is followed throughout the junior and senior years during which time the students spend forty-six weeks out of the year, either at school or in employment. The result is that they gain a tremendous advantage in the way of practical experience. They come to a new appreciation of time and relative values, and they gain a true perspective of business. They have served in graded capacities in the business house, have learned the language of business and the habits and customs of business men, and have adjusted their mentality to the affairs of the world. What is more, they have been enabled to discover at first hand the type of business and the position in a business which most strongly appeals to them. This training, combined

with their class work in college, their contacts with other students in athletics and the School activities, gives them a remarkably effective combination.

It is a well established fact that the typical college man attending the four-year course, finds himself, upon graduation in a very awkward position. He has little knowledge of the world of affairs, and it takes him a considerable period of time to make the adjustments from the care-free life of a college student to the grind of business and the exact requirements of commerce and industry. Consequently many able young men upon graduation from the conventional college waste a great deal of valuable time in making these adjustments; some indeed, unfortunately never make them, but go from one form of employment to another, seeking a congenial and promising opening.

The co-operative student is spared this experience. His employment shows him what he needs to know, and why he needs to know it; and helps him to understand the relative importance of various kinds of information and the essentials which make for success. He therefore returns to the School with a whetted appetite for knowledge, a determination to obtain this training while it is available and to make himself master of the situation with which he is now in large measure familiar. The result of this dual experience is that the work of each of the alternate periods motivates the work of the other. The boy is a better student in the School and does not have to be driven, coaxed or urged, but is a willing and eager seeker for truth. He also makes a better employee, for he knows that while he may be at the moment employed in a lowly or unattractive branch of a business or industry, he is qualifying himself for leadership, and if he meets the requirements, trains his mind and hands, develops his experience, and grasps the technique of the business which he purposes to enter, he will be reasonably sure of winning success in his chosen calling.

The easy thing and the customary thing would be to continue our School of Business Administration on its present full-time basis; but the outstanding success of the Northeastern School of Engineering, which has won a national reputation for effectiveness and which is turning out each year large classes of highly trained engineers who possess this combination of theory and practice, leads us to make the sacrifice and to assume the additional burdens and expenses and complexities of such a programme.

The fact that over two hundred of the leading corporations of New England are employing the students of our School of Engineering on a co-operative basis is sufficient guarantee of



the desirability of this form of training. The rapid promotion of these men, their professional, social, and financial success, are constantly being brought to our attention.

We, therefore, take great pleasure and pride in announcing that our School of Business Administration will be placed upon this basis and that it will maintain the highest possible standards of scholarship, teaching, and supervision of the co-operative work done in the business or industry. Students and parents alike may look forward with complete confidence to the steady and gratifying development which will take place in the young men, and to the eagerness with which employers will seek their services.

Young men with this form of training are regarded as the most desirable type of employees and are in a large percentage of cases found after a few years steadily climbing toward important executive positions.

Co-operative education as conducted at Northeastern University is receiving the unqualified endorsement of those who know intimately of its effectiveness. The University, now conducting one of the largest co-operative schools of engineering in this country, proposes to have its School of Business Administration measure fully up to the standards it has set and to take every step which will make the School of Business Administration, already known as an outstanding institution, an even stronger and finer school than it is today.

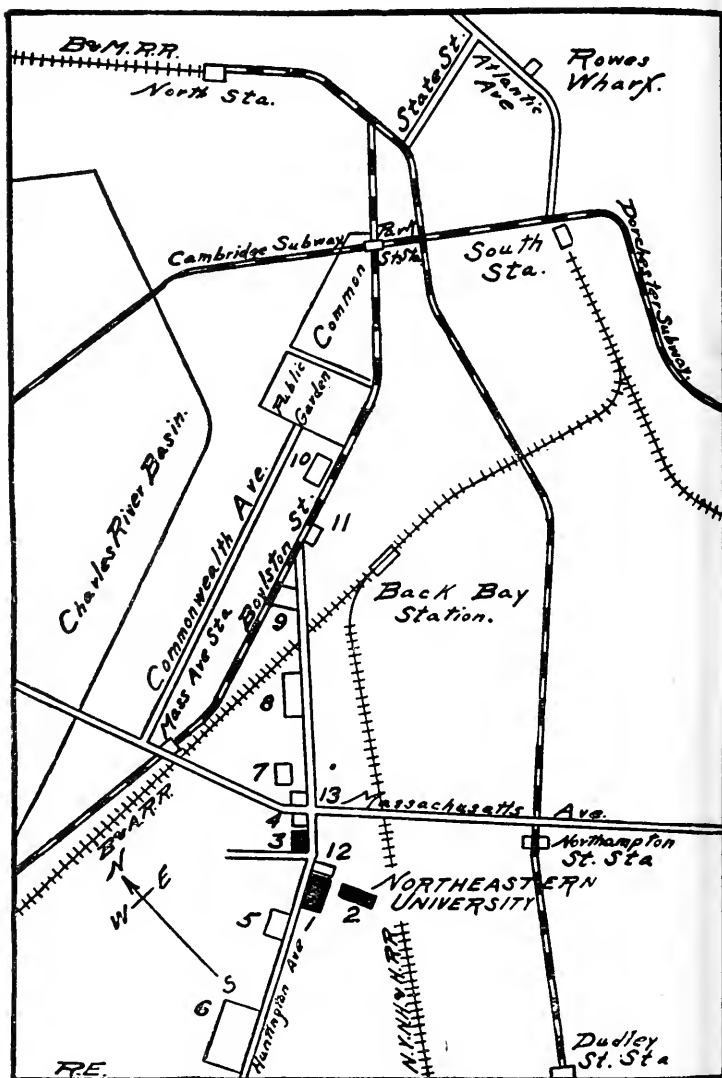
### POSITIONS AVAILABLE

The number of positions at the School's disposal is limited. The better positions will be given to the better men. Wherever students prefer to secure their own positions they will be permitted to do so subject to approval of the Director of Co-operative Work and, if desired, alternates will be furnished by the School.

### CREDITS

Students on the Co-operative Plan must complete their co-operative work in a manner that is satisfactory to the Director of Co-operative Work. Any failure to do so will result in the student's failing to obtain his degree at the completion of his academic work and the degree will be withheld until the Director of Co-operative Work is satisfied that the student has completed the work in a satisfactory manner.

# HOW TO GET TO NORTHEASTERN UNIVERSITY



MAP OF IMMEDIATE VICINITY

(For key, see next page)

1. From South Station or North Station, go to Park Street by Subway and take any Huntington Avenue car to Gainsboro Street.
2. From Back Bay Station, go to Huntington Avenue; take southbound car to Gainsboro Street.

## NORTHEASTERN UNIVERSITY

1. BOSTON Y. M. C. A.  
Main Building, Northeastern University
2. VOCATIONAL BUILDING
3. HUNTINGTON BUILDING
4. SYMPHONY HALL
5. BOSTON OPERA HOUSE
6. BOSTON MUSEUM OF FINE ARTS
7. CHRISTIAN SCIENCE CHURCH
8. MECHANICS EXHIBITION HALL
9. BOSTON PUBLIC LIBRARY
0. MUSEUM OF NATURAL HISTORY
1. TRINITY CHURCH
2. NEW ENGLAND CONSERVATORY OF MUSIC
3. HORTICULTURAL HALL

## GENERAL INFORMATION

### BUILDINGS

The School is housed primarily in the buildings of the Boston Young Men's Christian Association. In addition it leases a part of the Huntington Building, adjoining Symphony Hall.

The buildings are located on Huntington Avenue, in the section of Boston noted for its institutions of learning. The schools and colleges within their vicinity have an annual attendance of fifteen thousand students. The location is easily accessible from all parts of the city and suburbs, and is practically free from distracting influences.

The impression one gains from looking at the building (240 by 200 by 90 feet) from the front is that of one large structure. As a matter of fact, however, there are six buildings each on its own foundation. With the exception of the front and west side, the buildings are comparatively low, connected by corridors and bridges. This arrangement provides exceptionally fine light and air to all of them.

The six buildings are as follows: Administration, Assembly Hall, Recitation, Natatorium, Gymnasium, and Vocational.

#### ADMINISTRATION BUILDING

In the Administration building, besides various offices, there are libraries, class rooms, reading and social rooms.

#### ASSEMBLY HALL

The Jacob P. Bates Hall has a seating capacity of 500. A large stage, suitable for entertainments of all kinds is available. The hall is equipped with a motion picture machine. The regular assembly exercises and the lectures of the School are held here.

#### RECITATION BUILDING

The Recitation building is 196 feet long and 58 feet wide and six stories high. In the basement are the heating and ventilating plants. The first floor is taken up with game, social and club rooms, and a small assembly hall seating 150. On the second and third floors are located class rooms. The fourth floor contains a science lecture room completely equipped, a physics laboratory, three chemical laboratories, three drafting rooms, two recitation rooms, and department offices. The fifth and sixth floors are used as dormitories.

## NATATORIUM

This building is located between the Assembly Hall and the Gymnasium, and is easily accessible from the locker rooms of the latter. The swimming pool is 75 feet long by 25 feet wide, and is under a glass roof, admitting floods of sunshine. The pool is supplied with filtered salt water from an artesian well, and is heated to the proper temperature by an elaborate system of pipes. Altogether the Natatorium is one of the finest of its kind.

## GYMNASIUM

This structure is known as the Samuel Johnson Memorial Gymnasium, the funds of which were provided by the relatives of the late Samuel Johnson. The gymnasium provides the following facilities: three gymnasiums, a twelve-lap running track, two large exercise rooms, boxing and wrestling rooms, handball and squash courts, bowling alleys, showers, steam baths, massage rooms and electric cabinet baths.

The School of Business Administration occupies well-appointed and well-lighted class rooms, and has the use of the library, reading room, parlors, gymnasium, swimming pool, and other facilities. In fact the Y. M. C. A. buildings afford the students those exceptional advantages accruing from an advantageous location in the heart of an educational community.

## OUTDOOR FACILITIES

The outdoor facilities are exceptional for an urban university. Adjoining the buildings is a field equipped for athletics: with four tennis courts, jumping pits, board track, and cinder track with a hundred-yard straightaway. The University owns and maintains an additional well equipped athletic field a short distance from the School which provides ample facilities for baseball, football, soccer, and track. It is well equipped with bleachers, and a locker house.

## LIBRARIES

1. The libraries of Northeastern University and of the Boston Y. M. C. A. consist of several thousand carefully selected volumes. In these libraries the students of the School have available for their use necessary books on business administration and allied subjects, together with current business periodicals and the leading business services. The reading room of the library is open from 9.00 A.M. to 10.00 P.M. daily.

2. The Boston Public Library. All members of the School, whether resident or non-resident students, have the privilege of

taking books from the Boston Public Library and of using the library for general reference and study. Inasmuch as this is one of the best in the country, it presents unusual opportunities to the students. Within a few minutes' walk from the School, it enables students to have unlimited reference at any time to books and periodicals bearing upon business subjects.

## RESIDENCE

It is much more satisfactory for students to live within easy access of Boston. The saving of time and effort more than offsets any increased expense.

At present the School does not maintain dormitories; however, provision is made to secure rooms in the vicinity of the School or in the Y. M. C. A. dormitory—whenever possible—for all students who desire such reservation. Room and board ranges from \$11.00 per week up.

We are compelled to make agreements with the landlords who furnish accommodations for our students. The School endeavors to exercise due consideration and care for the student's welfare while in residence at school. These combined facts necessitate the adoption of rules and regulations presented herewith.

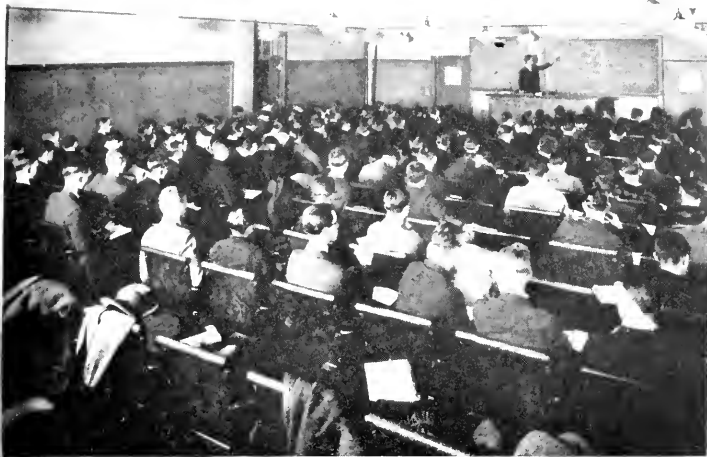
1. Assignments will be made when the student registers.
2. Students may inspect rooms before accepting an assignment; after reaching a decision same must be reported to the office of the Director of Housing, Room 351M.
3. Students who accept room assignments must retain same for the period of their residence during 1926-1927, unless given permission, by the Director of Housing, to change.
4. SECTION 1. All students living in Boston,—whether assigned by the Director of Housing or securing accommodations without such aid—must fill out a room registry card at the office of the Director of Housing. This does not apply to students living at home.

SECTION 2. Students living at home or with relatives must notify the Director of Housing if a change is made which involves rooming elsewhere than at home or with relatives.

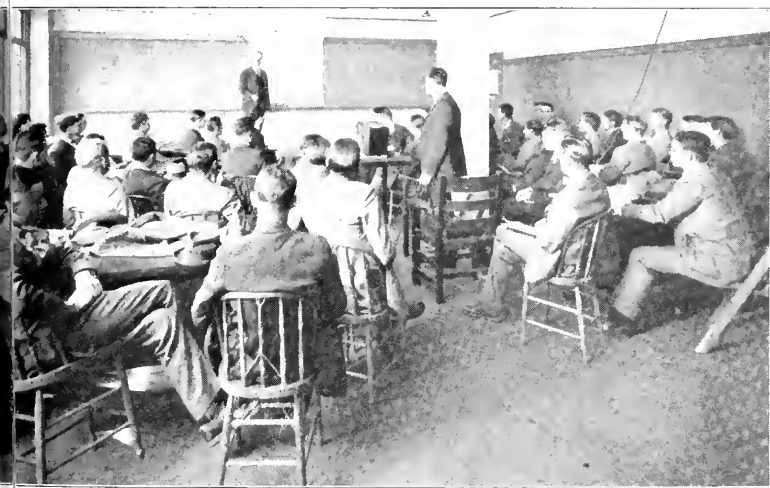
5. Rooms secured by students will be inspected; if disapproved by the committee, the student will be requested to find other accommodations or to accept assignment by the School.

6. Students are expected to observe the general accepted decencies of life and proprieties of American citizenship.

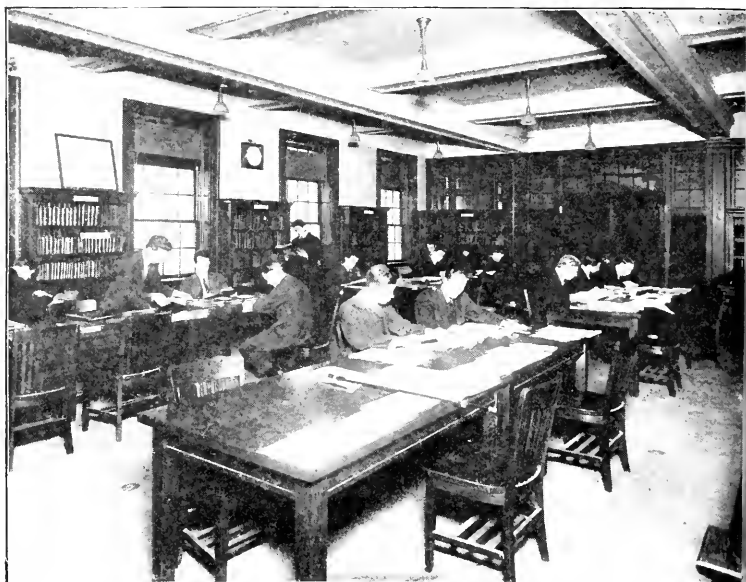
7. Violation of any of the above rules is considered a breach of discipline and will be dealt with accordingly.



A TYPICAL CLASS-ROOM



USING LANTERN SLIDES WITH INDUSTRIAL MANAGEMENT GROUP  
IN CHARTING INDUSTRIAL ORGANIZATION



SECTION OF REFERENCE LIBRARY



HUNTINGTON BUILDING



## ADMISSION TO THE SCHOOL

### ADMISSION REQUIREMENTS

#### I. REGULAR STUDENTS

An applicant for admission as a regular student and a candidate for the Bachelor of Business Administration (B.B.A.) degree must meet the following requirements:

- (a) He must furnish satisfactory credentials showing that:
  - 1. He is a graduate of an approved high school or school of equal grade, *or*
  - 2. He has completed satisfactorily fifteen units of secondary school work in such a school, *or*
  - 3. He must satisfactorily pass entrance examinations covering fifteen units of secondary school work.
- (b) He must be of satisfactory character.
- (c) He must satisfy the Committee on Admission through interview and a personnel analysis, or by such other means as the Committee may deem desirable, of his general fitness to undertake the work of the School.

#### II. SPECIAL STUDENTS

A special student, who is not a candidate for the B.B.A. degree, may be admitted to the School at the discretion of the Committee on Admission, provided he meets the following requirements:

- (a) He must be at least twenty-one years of age.
- (b) He must have had some business experience.
- (c) He must give satisfactory evidence of his general fitness to undertake the work of the School.

Those admitted as special students cannot become candidates for the B.B.A. degree unless at the time of admission they met all requirements for entrance as a candidate for the degree. Only a limited number of special students will be admitted in any one year.

#### III. PART-TIME STUDENTS

Under exceptional circumstances regular students may be permitted to take less than a complete program. Work taken in this manner will be credited toward meeting the requirements for the degree.

#### IV. ADVANCED STANDING STUDENTS

Students who have successfully completed regular courses of instruction in a school of business administration of a recognized college or university may receive not exceeding three years' advanced standing credit upon presentation of a satisfactory certificate showing the courses completed. Admission is open in the fall and at mid-year.

#### REGISTRATION

Registration involves two steps:

1. *Filing Application for Admission to the School.* An applicant for admission should file a formal application as soon as he has decided to seek entrance to the School. The blank at the close of this catalog may be used for this purpose. Additional blanks may be obtained from the School office. The early filing of the application renders it possible to adjust matters affecting the student's status in advance of the opening date of School and is highly desirable both from the standpoint of the student and that of the administration. Applications may be filed through the mail; or personally, the applicant calling at the School. A five dollar matriculation fee is payable when the application is filed.

2. *Formal Registration.* Formal registration consists in reporting at the School office on the registration date (see page of the catalog) and filling out the required forms. At this time the Dean, or a member of the faculty, will interview each student and so far as possible adjust all matters with regard to his status.

#### LATE REGISTRATION

In exceptional circumstances students may be permitted to register after the opening date of School, provided they have not lost so much work as to render admission to the School inadvisable. Business principles dictate that students should by all means avoid late registration. Students registering a week or more late must pay a post-registration fee of \$5.

#### MID-YEAR REGISTRATION

Under certain conditions, applicants for entrance at mid-year may be admitted, especially in the case of (1) students applying for advanced standing, (2) students who have graduated from high school at the mid-term, and (3) special students. Should those in the first two groups complete the

requirements for graduation at some succeeding mid-term, they would be nominally graduated, but would not formally receive the degree until the June following.

### TUITION AND OTHER FEES

APPLICATION FEE . . . . . \$5.00

Payable but once, at time of filing application  
for initial admission to the School.

### TUITION FEE

The tuition fee in each curriculum is \$250 a year. (The tuition for upper classmen on the co-operative plan will be \$200 per year.)

### STUDENT ACTIVITIES FEE

Each student in the School is charged a student activities fee of fifteen dollars (\$15.) Five dollars (\$5) of this fee will be paid at the time of registration and five dollars (\$5) with the second and five dollars (\$5) with the third payment on tuition. This fee supports student activities and includes membership in the Northeastern University Association and subscription to the *Northeastern Bulletin*, the School paper. The services of a physician are also included under this fee. Only minor ailments, however, are treated. Should the student show signs of more serious illness, he is immediately advised to consult a specialist or return to his home where he can get more adequate treatment.

### METHOD OF PAYMENT

Tuition fee and student activities fee are payable as follows:

First payment, September 13 . . . . .	\$110.00
Second payment, December 1 . . . . .	85.00
Third payment, February 9 . . . . .	<u>70.00</u>

Total tuition and student activities charge \$265.00

This amount covers all charges made by the School for student activity fees, including athletics, gymnasium and auditorium for freshmen, dramatics, glee clubs, associate membership in the Boston Y. M. C. A. (Certain clubs require in addition a small membership fee.)

GRADUATION FEE . . . . . \$10.00

Payable by all seniors on or before April 1 of the  
senior year.

## WITHDRAWALS AND REFUNDS

Students who are forced to withdraw from the School are requested to notify the School office in writing to the effect that they are withdrawing and to give their reasons for doing so. This notification should be given promptly.

As the School assumes the obligation of carrying the student throughout the year when the student registers, and as the University provides the instruction and accommodations on a yearly basis, the Executive Council of the University has ruled as follows:

- A. Applications for refunds must be presented within sixty days after withdrawal from the School.
- B. Credits and refunds will be granted only as stated below
  1. The unused portion of the tuition paid by the applicant may be placed in suspense and used at some future time to apply upon the tuition of any school in Northeastern University. This is done provided the reasons set forth in the application meet the approval of the Committee on Refunds and on the further condition that the credit be used within two years.
  2. Cash refunds of unused portions of tuition paid by the student may be granted only in cases where students are compelled to withdraw on account of personal illness. The application must be accompanied by a satisfactory certificate from the physician.

In the event of withdrawal after initial application for admission has been filed, no refund is made of the five dollar matriculation fee.

## RULES AND REGULATIONS

### THE MARKING SYSTEM

The following system of grading the results of a student's work has been adopted by the School:

- AA—90—100 Distinction: all-round excellence.
- A—90—100 Distinction: but not quite all-round excellence.
- B—80— 90 High performance, but not quite distinction.
- C—70— 80 Average performance (C average generally indicates a trend toward mediocrity of performance.)
- D—60— 70 Lowest passable performance (D average indicates mediocrity of performance.)
- F—40— 60 Failure (removable by condition examination and by fulfilling such other requirements as the instructor sets.)
- FF—Below 40 Failure (the course must be repeated in full.)
- Inc.—Work incomplete.

At the first and the third quarter an F record cannot be modified by examination or re-examination. However, on recommendation of the instructor, the student may be permitted to continue in class, having the remainder of the period, together with midyear or final examinations, in which through excellent work he may improve his poor record. A student's upward trend, other factors permitting, will receive priority over his earlier record. For graduation a student must complete, at least, seventy per cent of the total number of courses with a minimum grade of C.

In addition to attainment so far as the content of the course is concerned, individual ability will be taken into account and each student will be expected not only to secure passing marks in his courses, but also to do that grade of work which it is reasonable to expect from his particular ability. In other words, if a student has the ability to do A work, but actually does only C work, he is obviously not achieving what he should. In such a case, the faculty will exercise every effort to encourage and elicit that type of work commensurate with the student's ability.

### EXAMINATIONS—TERM WORK

1. Mid-year examinations will be given in all courses during the week following the close of the first semester. In the case of half-year courses the mid-year examinations will be the final examinations. Class sessions are omitted during the examination period.

2. During the two weeks following the close of the second semester, final examinations will be given in each course, excepting those which were concluded the first semester.

3. All of the required term work in certain courses must be completed and submitted before the student may take the mid-year or final examination in the course.

## RE-EXAMINATIONS

Students who receive a grade of forty to sixty per cent in a course will be permitted to take a re-examination in the course the following September. If a student fails in the re-examination he must, if the course is prescribed, repeat the course; if he passes he will be credited with a final grade of sixty per cent in the subject. The fee for each re-examination is three dollars.

A re-examination cannot be taken to raise a grade.

## PROMOTION AND CLASSIFICATION OF STUDENTS ON THE FULL-TIME PLAN

Classification in, and promotion to, the various classes of the School is dependent upon the attainment of the credits indicated below in each case:

For sophomore standing (with freshman conditions) . . .	15½ hours credit
For junior standing (with sophomore conditions) . . .	27 hours credit
For senior standing (with junior conditions) . . .	42 hours credit

## REPORTS OF STUDENTS' PROGRESS

Reports of students' progress are issued regularly four times in each school year: December 1, February 10, April 10, and June 10. The School will also be glad to furnish parents and students, at times other than the dates upon which regular reports are tendered, full information with regard to status. In event the work of a student is unsatisfactory, the School will notify both the student and his parents of the fact, and will attempt to discover and eliminate the causes.

## ATTENDANCE REQUIREMENTS

Students are expected to attend all exercises in the subjects they are studying unless excused by the Dean. Students who are absent from the first school exercise after a holiday or recess period are required to pay a fine of two dollars (\$2). Exercises are held, and students are expected to devote themselves to the work of the School, between 9.00 A.M. and 5.00 P.M. except for an hour lunch period, on every week day except Saturday. Saturday classes are held only between 9.00 A.M. and 1.00 P.M.

## REQUIREMENTS FOR THE B.B.A. DEGREE

A candidate for the Bachelor of Business Administration degree must satisfy the following requirements:

- (a) He must have met all of the admission requirements and have been admitted to the School as a regular student in candidacy for the degree.
- (b) The unit of credit is the "hour"; for example, a course pursued three times a week throughout the year would give three hours' credit, a course two times a week throughout the year, two hours' credit, etc. A laboratory period of two hours shall regularly count as one hour's credit toward the degree. Under certain exceptional circumstances laboratory work may count hour for hour as credit toward the degree. A student to be eligible for the degree must complete courses which will allow him the minimum credit of:

First year . . . . .	18½ hours
Second year . . . . .	15 hours
Third year . . . . .	15 hours
Fourth year . . . . .	15 hours

Total required for degree . 63½ hours

Credit for a course implies the completion of the term work in the course with a grade of at least D and the securing in the final examination of the course of a grade of at least D, except that seventy per cent of the total number of courses must be passed with the minimum grade of C.

- (c) He must meet the attendance requirements of the School. (See above.)
- (d) He must have had at least 30 weeks of practical business experience before the degree is granted. This business experience may be obtained by work pursued during the summer vacations. This applies to students entering their senior year, prior to September, 1927. Beginning September, 1927, students must complete satisfactorily the co-operative employment requirements as outlined elsewhere in the catalog.

## REQUIREMENTS FOR THE JUNIOR CERTIFICATE

To secure the Junior Certificate a student must satisfy the following requirements:

- (a) He must have met all of the admission requirements of

students who are admitted to the School as candidates for the B.B.A. degree.

- (b) He must complete courses which will allow him the following minimum credit:

First year . . . . .	18½ hours
Second year . . . . .	15 hours
Total required . . . . .	<u>33½ hours</u>

- (c) He must make the required attendance upon classes.
- (d) He must have had at least fifteen weeks' business experience before the Certificate is granted. Students will be able to meet this requirement during the summer vacations between the first and second years of the course.

## PART-TIME EMPLOYMENT REGULATIONS

Students doing part-time work, that is outside work while attending at school, may be required to carry fewer courses. Any student whose employment distinctly lowers his performance in study, as exhibited in the academic reports, will be required to drop either his employment or a part of his college work. During the freshman year no student who can possibly afford should attempt heavy part-time employment. Statistics show conclusively that this division of time and energy almost invariably results disastrously. It is far wiser to continue schooling at least one year more than to dissipate one's energy and thought.

## CONDUCT

It is assumed that students come to the School for a serious purpose, and that they will cheerfully conform to such regulations as may from time to time be made. In case of injury to any building, or to any of the furniture, or other property of the School, the damage will be charged to the student, or student known to be immediately concerned; but if the persons who caused the damage are unknown, the cost for repairs may be assessed equally upon all the students of the School.

Students are expected to behave with decorum, to obey the regulations of the School, and to pay due respect to its officers. Conduct inconsistent with the general good order of the School or persistent neglect of work, if repeated after admonition may be followed by dismissal, or, in case the offense be a less serious one, the student may be placed upon probation. The



student so placed upon probation may be dismissed if guilty of further offense.

It is desired to administer the discipline of the School so as to maintain a high standard of integrity and a scrupulous regard for truth. The attempt of any student to present, as his own, any work which he has not performed, or to pass any examination by improper means, is regarded as a most serious offense and renders the offender liable to immediate expulsion. The aiding and abetting of a student in any dishonesty is also held to be a grave breach of discipline.

## STUDENT ACTIVITIES

The School officials recognize the constructive values wholesome, active, and recreational life.

Students are encouraged to form organizations which will stimulate the best types of activities. In fact, student activities form a natural part of the college life, and add to the student's all-round development much that no mere course of study alone can give him.

The following list is representative of those activities which the University encourages students to participate.

### ATHLETICS

There are three types of athletic activities under the direction of the University: (1) competitive sports such as baseball, basketball, track, swimming, wrestling, soccer, and tennis; (2) recreational activities which involve but a slight amount of competition and no organized competition, including all phases of gymnastics particularly; (3) and corrective exercises.

#### I. COMPETITIVE SPORTS

All forms of organized competitive athletics recognized by the University are under the general direction of the Northeastern University Athletic Association. The Athletic Association consists of all students of the Schools of Engineering and Business Administration.

At the head of the Association is the General Athletic Committee, consisting of certain members of the faculty and student officers of the Athletic Association, the latter elected from the student body. This committee has charge of the administration of athletics, subject to the approval of the Faculty Committee on Athletics.

Under the guidance of efficient athletic coaches, track, basketball, soccer, wrestling, and baseball teams are formed. Schedules are arranged with other colleges for home games and games abroad. The University also encourages swimming, interclass baseball, fencing, and tennis teams. Interclass and interdivision meets are held during the year.

#### II. RECREATION AND HEALTH

Physical training is definitely classified as a regular freshman course for which no additional charge is made. It is as much a part of the freshman year's work as is any other course, and passing grade must be made for credit. No unexcused student will be graduated who has not made his credits in physical training.

Recreation and good health are essential to success in the studies of the School and in later business careers. Freshmen, unless on part-time employment, or physically incapacitated, are required to take at least two hours per week of physical recreation, which is provided in connection with the gymnasiums, swimming pool, tennis courts, and other facilities.

Upper classmen are encouraged to make use of these advantages, although physical training is not a required course beyond the first year. There is no charge for participation in organized athletics. In case, however, upper classmen take part in freshman gymnastic exercises or desire other privileges of the Recreation and Health Department, the usual fee must be paid by such student to the department.

## II. CORRECTIVE EXERCISES

All freshmen in the School receive one to three thorough physical examinations per year by the University expert. They are then grouped for physical exercise according to their condition.

Where deemed advisable, the School will require that students take a prescribed amount of special, carefully designed physical exercises at regular intervals for the purpose of correcting defects.

## MUSICAL AND DRAMATIC CLUBS

Students of the Schools of Engineering and of Business Administration combined to form the University Musical Clubs. The chief clubs of the present time consist of a band, concert orchestra, dance orchestra, glee club and banjo club. These clubs, under supervision of competent faculty coaches, give many concerts in nearby cities and towns as well as finishing music at the mass meetings, athletic contests, and so forth.

The Dramatic Club has been especially successful and holds an important position in the list of student activities conducted at the School.

## SOCIAL LIFE

The social life of the School consists principally of the following activities:

The first is a reception given by the Faculty to the entire student body.

The second is that of class activities. Classes hold regular get-togethers, with cheering, singing, music, jokes, and acquaintance-making. Occasionally the freshman class entertains

upper classes; annually, soon after the opening of school, the upper classmen entertain the first-year students, providing one of the most enjoyable occasions of the year.

The third variety of social entertainment is the Freshman Dance. This annual affair, scheduled to occur within the first six weeks of school, affords much enjoyment of the most wholesome sort.

Informal small group dances constitute the fourth variety of social life. These are infrequent, yet sufficient to meet the normal demands of concerted college life.

The annual "Junior Prom" constitutes one of the most distinctive functions of the year. This is a formal occasion to which students, faculty, and friends take part.

Perhaps the most distinctive social event of the year consists in Home Folks Day. Most colleges have "get-togethers" for students, but few attempt to bring student and family together at the college. Nothing is more helpful to the student than the intimate interest of his father, his mother, his brother, his sister, in his college life. Accordingly once each year the faculty and students devote one day to a series of entertainments which the Home Folks share. There are dramatic presentations, minstrel shows, athletic contests, speeches, tours of the University buildings and grounds, parlor acquaintance-making followed by a banquet and later a dance. Parents and students are agreed that this occasion is unique in tone, in spirit, in value.

Finally, in order that the utmost informality and cordiality may exist between the administration and the students, the Dean sets aside certain Home Social Hours. He and his family keep open house and cordially invite to their home individual and group visits of students and members of the faculty, at the following hours:

1. From 7.30 to 10.00, during the evening of the first Wednesday of each month.
2. From 3.30 to 6.00, during the afternoon of the fourth Sunday of each month.

## THE BULLETIN

The student publication, *The Bulletin*, appears monthly. It ranks high in ideals and influence on student life. Through this organ of student opinion, the student body has an opportunity to express their own opinions on subjects relating to school affairs, and social events.

## STUDENT CLUBS

Several high school, professional, and small social groups have been organized to provide suitable recreation for all members of the student body. These constitute an important value in the rounding out of a four-square manhood. All work individually and collectively to further various occasions of the school year, such as dances, entertainments, and Home Folks Day.

### NORTHEASTERN UNIVERSITY CLUB

The Northeastern University Club of Boston was organized in the spring of 1921 with graduates of the School of Law, Commerce and Finance, and Engineering, as charter members.

The purpose of the Club is to promote social activities among the alumni of Northeastern University; to perpetuate the Northeastern spirit in the business life of the community; to give to their Alma Mater the benefit of the experience of the alumni in the School and of their experience in business and professional activities since their graduation.

Any man of good character, twenty-one years of age or over, who is a graduate of any of the Schools of Northeastern University, granting a degree, or who has attended such schools for a period of two full years, is eligible for membership.

### THE BOSTON Y. M. C. A.

Northeastern University is conducted by the Boston Y. M. C. A., though non-sectarian, it is thoroughly Christian in character. Students are encouraged to participate in the student Christian Union of the University, so far as is consistent with their own particular religious beliefs. However, a student should not hesitate entering the School because of religious faith, no attempt being made to influence one to participate in activities which are contrary to the tenets of his particular religion.

## FRATERNITIES

At present four fraternities hold charters from the School, operating in a spirit of close co-operation. These fraternities are the Phi Beta Alpha, the Alpha Sigma Phi, the Kappa Zeta Phi, and the Iota Phi Sigma.

Each has a faculty adviser, elected by its members and approved by the School. Each agrees in its charter to foster high scholarship and to develop school loyalty, with especial attention to any member who fails to meet academic or other requirements. No student is eligible for a bid unless his academic record averages at least C-.

The operation of all fraternities is supervised by the Inter-Fraternity Council, composed of two members from each fraternity, the Dean of the School sharing in all deliberations of this body.

### HONOR FRATERNITY

There is one Honor Fraternity, Sigma Delta Epsilon.

Its purpose is, through its membership determined on the basis of personality, a broad program of activities, and high scholastic standing, to foster high attainment in study and in activities and to develop that high ethical and professional code which increasingly characterizes business men.

### RELIGIOUS LIFE

Because of the fact that the School is absolutely non-sectarian and has in its enrolment members of various religious faiths, the program of religious activities has to be and should be very broad and generous. At the same time it must be utterly sincere and non-compromising on broad principles. No part of the religious program is compulsory, or so narrow as to exclude anyone.

The chief agency for organizing and carrying out such a program is the Student Christian Union, organized by and composed of students particularly interested in this type of activities. The Dean of the School acts in an advisory capacity to the Union.

The main purpose of the organization is to develop rational and strong Christian character by bringing students together from the service point of view. Students help one another, in many ways which cannot properly be listed in a catalog, to develop that four-square manhood which is essential to a democratic civilization. The chief functions of the Union, in organized form, are:

(1) Developing leadership through study and participation in School and community activities which demand and develop leadership; (2) assisting new students to find suitable housing accommodations and controlling the housing program of the School; (3) establishing among the students groups to study life problems and leading or finding leaders for these groups; (4) visiting any students who are sick or injured and helping them in every way possible; (5) studying the stress universally laid upon personality and character and fostering programs of self-development from the standpoint of Christian manhood.

## ORGANIZATION OF CURRICULUMS

### BASIC COURSES

Analysis of the courses listed in the first two years will reveal those subjects which are deemed a fundamental approach to further specialization in the study of business, from the viewpoint of executive direction and control. They constitute a groundwork for the development of the executive. These courses are prescribed for all students.

Such groundwork is necessary in the first two years because of six fundamental facts:

*First*, since all students expect to specialize sooner or later in a particular business field, those subjects offered in their first years of college must be of such nature as to equip each student with that groundwork upon which his field of specialization rests. The basic courses required in the first two years are designed to supply that essential equipment.

*Second*, colleges throughout the country recognize their freshman year as the critical period for students. A large number of young men who have formulated purposes may develop interest in a goal for which they are not preparing specifically or they may change their objective altogether and transfer to an institution which meets their new demands. This transfer should be effected with a minimum loss in time and in subject matter for credit in the college to which the student goes.

*Third*, educational statistics show that for one reason or another a large percentage of students withdraw after their first or second year, leaving college altogether. These men should receive the highest values possible for such a short period. Hence, broad and underlying principles of administration rather than technical processes should constitute their first two years' study.

*Fourth*, statistics indicate further that a large percentage of freshmen and sophomores who remain in colleges are groping their way uncertainly toward a career. Their highest welfare demands time and opportunity for exploration in the field of business. Therefore, broad, constructive, vocationally directive courses should characterize their introduction to the study of business administration.

*Fifth*, while a fair number of sophomores in colleges and universities formulate career decisions before their junior year, numbers of these decisions undergo radical changes before or within the next year. The foundation must be sufficiently broad to allow for that shift in career with a minimum loss in time and value. Accordingly, a fundamental groundwork, basic

to administration in the chief fields of business and industry, should result from their first two years in college.

Finally, accumulated statistics show conclusively that few eminent business men have remained throughout life in the field which marked the beginning of their career. For example, out of fifty of this country's most successful business men, thirty-nine are in fields far different from those in which they began. In other words, about four of every five or eighty of every hundred change their work from once to many times before gaining success. Therefore, a student's background should be broad and deep, enabling him to meet any unusual opportunity in any phase of business presenting itself to him.

Such a background the student finds in the prescribed work of the first two years preceding the period of specialization.

In the light of the foregoing facts, all students will receive a thorough grounding in underlying principles of business administration before final specialization in any of the main divisions of business such as Accounting, Finance, Marketing, as well as for the specific work of the cost accountant, auditor, office manager, advertising manager, credit man, sales manager, personnel manager, and other executives.

The following outline of the prescribed work in the first two years presents those subjects which are deemed fundamental to specialization in any of the main fields of administration in business and industry.

### FIRST YEAR

FIRST SEMESTER	Recitation hours per week	SECOND SEMESTER	Recitation hours per week
Retail and Wholesale Organization . . . . .	3	Retail Store Organization and Management . . . . .	3
Occupational Surveys . . . . .	4	Occupational Surveys . . . . .	4
English Composition . . . . .	3	English Composition . . . . .	3
Fundamentals of Business Organization . . . . .	4	Fundamentals of Business Administration . . . . .	4
The Problem Method of Study . . . . .	3		
Physical Training . . . . .	2	Physical Training . . . . .	2

### SECOND YEAR

Occupational Surveys . . . . .	3	Occupational Surveys . . . . .	3
Marketing Problems . . . . .	3	Marketing Problems . . . . .	3
Advanced Accounting . . . . .	3	Advanced Accounting . . . . .	3
Business Finance . . . . .	3	Business Finance . . . . .	3
*Elementary Accounting . . . . .	5	*Elementary Accounting . . . . .	5
Advanced English Composition . . . . .	3	English Literature . . . . .	3

\*Offered in 1927-1928.



## GENERAL VIEW OF CURRICULUMS

In presenting outlines of the various curriculums open to students, the School calls attention to the fact that such outlines are tentative. In the last two years students specializing in one field may, upon the Dean's approval, elect related courses from any other field.

Business is not static; it never stands still. No curriculums can be considered final. They must be elastic because business principles are so, because each field of business permits a broad range of specialization, and because each student has a peculiar approach to his specific field. No curriculum can exhibit the range of study combinations possible for the most intensive specialization.

Each of the three curriculums which follow presents in the first two years those subjects deemed prerequisite as a broad, fundamental background to more specialized study. On page 21 appear six primary reasons for prescribing these courses for all students.

In the last two years there are few absolute prescriptions. All students have unrestricted choice of curriculums; in fact, under proper conditions, upon approval of the Dean, a student in his third and fourth years, may major in two fields and minor in a third. In these cases, of course, certain prescriptions obtain in order to insure proper co-ordination and balance of subject matter, since each business field demands intimate knowledge of its particular problems and methods. With equal reason, there are elective subjects which belong more naturally to one field than to another. On the other hand, within each field there is opportunity for so high a degree of specialization that no curriculum can adequately present the possible range of study involved or permissible.

Although no special course in Business or Commercial Law is shown in any of the curriculums which follow, great care has been taken in the preparation of courses to assure students of a thorough grounding in the legal aspects of the subjects which they are studying. No student will be able to complete any of the curriculums without having a thorough grounding from all phases of Business Law.

Accordingly, in reviewing the general outlines which follow of curriculums in Distribution Management, Finance and Financial Management, and Accounting, the reader should bear in mind that these outlines beyond the second year are suggestive, not final, and that there are other combinations of courses almost equally pertinent.

In the case of students who are uncertain as to the field of their choice, it is suggested that they specialize in Distribution Management because this field represents the largest single field of commercial activity and because it offers an unusually broad range of study.

## CURRICULUM I

### DISTRIBUTION MANAGEMENT

This curriculum is suggested for those who plan to enter wholesaling, retailing, advertising, salesmanship, or other fields of selling. The basic training in business as a whole is required in the first two years; in the last two years specialization is permissible.

Since only a small percentage of students have definite convictions as to the field of business they desire to enter, and since the field of distributing represents the largest single field of commercial activity, it is recommended that most students specialize in Distribution Management. This suggestion is particularly pertinent for those who are uncertain as to their choice.

The most difficult phases of marketing relate logically to problems of selling. These problems were comparatively simple before the introduction of power machinery and the development of mass production. This development made old marketing methods useless in general; large scale, specialized production not only demanded new and larger markets, or more intensive development of existing markets, but also required a thorough going reconstruction of marketing methods. Hence the sweeping revolution in selling organizations and in policies and methods of distribution.

Not only the earlier, time-worn sales methods of manufacturers have been swept away, but retail merchandising and wholesale distribution have undergone and are yet undergoing profound changes in management and in operation.

Despite the fact of reduced distribution costs, complexity of the world's economic structure has increased production costs. A significant problem for marketing, therefore, is that of cost reduction. To reduce cost in manufacturing is not primarily the work of distribution agencies; nevertheless, in order to overcome the handicap of heavy costs, many agencies have assumed the producer's functions. Conversely, many producers have assumed marketing functions in an effort to cut costs. Producer and distributor must now develop greater efficiency in methods, each understanding generally the work of the other.

It is necessary to face unflinchingly the problems of mass distribution no less than of mass production. Chain store operations—chain specialty stores, chain wholesale stores, chain department stores—these highly complex agencies of distribution must be studied with utmost care.

**I**

**DISTRIBUTION MANAGEMENT**

**FIRST YEAR**

FIRST SEMESTER	Recitation hours per week	SECOND SEMESTER	Recitation hours per week
Occupational Surveys. . . .	4	Occupational Surveys. . . .	4
Retail and Wholesale Or- ganization. . . . .	3	Retail and Wholesale Or- ganization. . . . .	3
English Composition. . . .	4	English Composition. . . .	4
Fundamentals of Business Organization. . . . .	4	Fundamentals of Business Administration. . . . .	4
The Problem Method of Study. . . . .	3		
Physical Training. . . . .	2	Physical Training. . . . .	2

**SECOND YEAR**

*Elementary Accounting..	5	*Elementary Accounting..	5
Marketing Problems. . . .	3	Marketing Problems. . . .	3
Advanced Accounting. . . .	3	Advanced Accounting. . . .	3
Business Finance. . . . .	3	Business Finance. . . . .	3
Occupational Surveys. . . .	3	Occupational Surveys. . . .	3
Advanced English Compo- sition. . . . .	3	English Literature . . . . .	3

**THIRD YEAR**

Advanced Business Finance	3	Advanced Business Finance	3
Business Statistics. . . . .	3	Business Statistics. . . . .	3
Advertising Principles. . . .	3	Advertising Campaigns. . .	3
Problems in Sales Manage- ment. . . . .	3	Problems in Sales Manage- ment. . . . .	3
Special Research Problems	3	Special Research Problems	3

**FOURTH YEAR**

Advanced Economic Prob- lems. . . . .	3	Advanced Economic Prob- lems. . . . .	3
Purchasing Problems. . . .	3	Personnel Problems. . . . .	3
Merchandising Methods and Policies. . . . .	3	Merchandising Methods and Policies. . . . .	3
Principles of Psychology. .	3	Psychology. . . . .	3
Special Research Problem	3	Special Research Problem.	3

\*Offered in 1927-1928.

## CURRICULUM II

### FINANCE AND FINANCIAL MANAGEMENT

The suggested curriculum in Finance is designed for those students who expect to engage in some phase of commercial or investment banking, or of business finance. It offers opportunities for both general business training and specialization in the fields of banking, finance, investments, and related fields.

After two years of ground work in business fundamentals, this course provides specialization in the problems of organizing and financing business and industrial enterprises: knowledge of the sources of capital, of acquiring capital for organizing or expanding, of banking methods and management, of credit, of failures and bankruptcy and their causes. From the administrative point of view, that is of the bank executive, are presented matters of limitation of activities, organization, personnel, federal reserve system, loan and credit policies, trusts, syndicates.

Particular stress is laid upon the promotion and expansion of corporations, the underwriting of syndicates, and of sound accounting principles, together with their relation to state and federal powers. Logically linked with these problems are those of investment banking, foreign exchange, public utility finance, and municipal financial problems.

This curriculum also involves a study of Bank Administration.

## II

### FINANCE AND FINANCIAL MANAGEMENT

#### FIRST YEAR

FIRST SEMESTER	Recitation hours per week	SECOND SEMESTER	Recitation hours per week
Occupational Surveys. . . .	4	Occupational Surveys. . . .	4
Retail and Wholesale Or- ganization. . . . .	3	Retail and Wholesale Or- ganization. . . . .	3
English Composition. . . .	4	English Composition. . . .	4
Fundamentals of Business Organization. . . . .	4	Fundamentals of Business Administration. . . . .	4
The Problem Method of Study. . . . .	3		
Physical Training. . . . .	2	Physical Training. . . . .	2

#### SECOND YEAR

*Elementary Accounting..	5	*Elementary Accounting..	5
Marketing Problems. . . .	3	Marketing Problems. . . .	3
Advanced Accounting. . . .	3	Advanced Accounting. . . .	3
Business Finance. . . . .	3	Business Finance. . . . .	3
Occupational Surveys. . . .	3	Occupational Surveys. . . .	3
Advanced English Compo- sition. . . . .	3	English Literature. . . . .	3

#### THIRD YEAR

Monetary Principles. . . .	3	Elementary Commercial Banking. . . . .	3
Business Statistics. . . . .	3	Business Statistics. . . . .	3
Advanced Business Finance	3	Advanced Business Finance	3
Cost Accounting. . . . .	3	Cost Accounting. . . . .	3
Special Research Problems	3	Special Research Problems	3

#### FOURTH YEAR

Public Utility Finance. . . .	3	Commercial and Bank Credits. . . . .	3
Advanced Economic Theory	3	Advanced Economic Theory	3
Advanced Commercial Banking. . . . .	3	Investment Banking. . . . .	3
Principles of Psychology. .	3	Psychology. . . . .	3
Special Research Problems.	3	Special Research Problems	3

\*Offered in 1927-1928.

### CURRICULUM III

#### PROFESSIONAL AND MANAGERIAL ACCOUNTING

The field of Accounting probably produces more executive heads of business enterprises today than any other one agency.

With the growth in complexity of business, accountants bulk more and more important in the organization and operation of a successful business enterprise. Increasingly there is a demand for well-trained men, both in the fields of industrial and commercial accounting and in the profession of public accounting.

This curriculum, therefore, while preparing students for accounting positions in large corporations, for public accounting, and ultimately for administrative positions as well, designed more especially for those who desire to become professional accountants, nevertheless provides an excellent background for future administrators.

In this curriculum the background of total business organization is stressed to the utmost. The whole field of accounting is intricately linked with both commerce and industry; constructive accounting has to consider peculiar demands made by various concerns; interpretation of accounts oftentimes depends, not alone upon an accounting principle, but upon a principle of business administration or of business law; the consulting accountant frequently has to formulate or reshape the entire administrative, financial, or marketing policy and programs of a concern about whose particular business he may have known nothing. The fact that many producers and wholesalers have cut down their advertising campaigns and devoted their energies to "dealer help" in matters of accurate accounting of all kinds illustrates the intimate connections of accounting with business.

Accountancy of the highest type demands all those powers commonly assigned to executives: initiative, power of analysis, breadth of view, resourcefulness, sound judgment. The course prepares students with such qualities for the work of the cost accountant, auditor, office manager, advertising manager, credit manager, or sales manager, and also for other executive positions.

### III ACCOUNTING

#### FIRST YEAR

FIRST SEMESTER	Recitation hours per week	SECOND SEMESTER	Recitation hours per week
Retail and Wholesale Organization.....	3	Retail and Wholesale Organization.....	3
Occupational Surveys.....	4	Occupational Surveys.....	4
English Composition.....	4	English Composition.....	4
Fundamentals of Business Organization.....	4	Fundamentals of Business Administration.....	4
The Problem Method of Study.....	3		
Physical Training.....	2	Physical Training.....	2

#### SECOND YEAR

*Elementary Accounting..	5	*Elementary Accounting..	5
Marketing Problems.....	3	Marketing Problems.....	3
Advanced Accounting.....	3	Advanced Accounting.....	3
Business Finance.....	3	Business Finance.....	3
Occupational Surveys.....	3	Occupational Surveys.....	3
Advanced English Composition.....	3	English Literature.....	3

#### THIRD YEAR

Specialized Accounting Systems.....	3	Specialized Accounting Systems.....	3
Business Statistics.....	3	Business Statistics.....	3
Elementary C. P. A. Problems.....	3	Elementary C. P. A. Problems.....	3
Advanced Business Finance	3	Advanced Business Finance	3
Cost Accounting.....	3	Cost Accounting.....	3

#### FOURTH YEAR

Advanced Economic Theory	3	Advanced Economic Theory	3
Auditing.....	3	Auditing.....	3
Advanced C. P. A. Problems.....	6	Advanced C. P. A. Problems.....	6
Principles of Psychology..	3	Psychology.....	3

\*Offered in 1927-1928.



## TWO-YEAR GENERAL BUSINESS CURRICULUM LEADING TO JUNIOR CERTIFICATE

The two-year General Business curriculum, leading to the Junior Certificate, is planned for those students who cannot pursue the four-year curriculum. Since the basic courses in business administration have been placed in the first two years of all curriculums, this special two-year curriculum coincides in the main with the work prescribed for all men in the first two years. However, where desirable, logical elections may be made upon the Dean's approval, particularly in the second year.

### FIRST YEAR

FIRST SEMESTER	Recitation hours per week	SECOND SEMESTER	Recitation hours per week
Retail and Wholesale Organization.....	3	Retail and Wholesale Organization.....	3
Occupational Surveys....	4	Occupational Surveys....	4
English Composition....	4	English Composition....	4
Fundamentals of Business Organization.....	4	Fundamentals of Business Administration.....	4
The Problem Method of Study.....	3		
Physical Training.....	2	Physical Training.....	2

### SECOND YEAR

*Elementary Accounting..	5	*Elementary Accounting..	5
Marketing Problems....	3	Marketing Problems....	3
Advanced Accounting....	3	Advanced Accounting....	3
Business Finance.....	3	Business Finance.....	3
Occupational Surveys....	3	Occupational Surveys....	3
Advanced English Composition.....	3	English Literature.....	3

### SINGLE COURSES

A single course or combination of courses may be taken by special students who have met the admission requirements for special students (see page 33), and who do not desire to take a full program. The programs of such students must, in each case, be approved by the Dean.

\*Offered in 1927-1928.

## DESCRIPTION OF COURSES

### COURSES OFFERED IN FRESHMAN YEAR

#### ELEMENTARY ACCOUNTING

The purpose of this course is to present the fundamental principles of accounting theory and practice in a comprehensive manner so as to meet the needs not only of students who intend to specialize in accounting but also for those who require a knowledge of accounting as a preparation for the study of banking, finance, marketing, etc.

The subject is approached from the balance sheet point of view so that the ultimate goal and purpose of accounting is understood before the mechanical methods of recording business transactions are presented. A large amount of work is covered by class discussions and demonstrations, and assigned problems bearing upon the opening of accounting records, the recording of current transactions, the adjustment of accounts, and the compilation of statements and reports at the close of the fiscal period.

#### ENGLISH I

The purpose of this course is to develop the ability to organize ideas into presentable form and to teach the clear, accurate, and concise expression of them. The course will, therefore, begin with a thorough review of grammar and a study of paragraph writing. Having mastered these, it will proceed to a discussion of the fundamental forms of discourse which will be taught by lectures and recitations. Opportunity will be afforded for abundant practice in writing paragraphs and whole compositions and the correcting of them. The course will end with an application of the above principles to business needs, such as business letters, reports, and so forth. Consultation hours will be arranged at which students are expected to meet the instructor by request or voluntarily for the purpose of discussing their difficulties and giving them general guidance in the work of the course.

#### FUNDAMENTALS OF BUSINESS ADMINISTRATION

This course purposes to introduce the student to the various aspects of business life and deals with such subjects as money, banking, corporations, stocks and bonds, the New York Stock Exchange, railway transportation, foreign trade, taxation, industrial organization, the management of labor, marketing, the business cycle and advertising.

## FUNDAMENTALS OF BUSINESS ORGANIZATION

This course is intended to prepare the entering men in a general way for the more specialized courses which are to follow. It considers the various factors essential to a clear understanding of the fundamentals of business organization and of business administration.

Study is given, among other things, to the problems of adjustment to physical environment, to the leading industries of the United States, to the more common forms of business organization, to the problems of finance, of production, of location, of risk and risk bearing, of labor, and of the relation of the state to industrial enterprise.

## PHYSICAL TRAINING

All first-year students are required to take Physical Training. Health, strength, and vitality do not come by chance, but by obedience to natural laws. It is very essential for the student to acquire good habits of life. The work in the gymnasium is of the body building type, with plenty of competition. Regular classes in calisthenics are held under an able physical instructor.

Students who are members of the varsity squad in any of the major sports may be excused from Physical Training upon petition to the Faculty, providing the petition is supported by the certification of the athletic coach and physical director. Upon petition of a student to be excused from Physical Training, owing to physical disability, favorable action will be taken by the Faculty only when said petition is accompanied by a physician's certificate, verifying the disability.

## RETAIL AND WHOLESALE ORGANIZATION

A course in the scientific and practical instruction of wholesale and retail store management including inventory problems and up-keep of stores, merchandise sources, problems of making demand, marketing, turnovers, and effects of competition.

## THE PROBLEM METHOD OF STUDY

This course fundamentally treats of the Psychology of Learning. It studies man's original nature. It analyzes his environment. It shows, through experiments, how one's original nature becomes modified unconsciously and how it may be modified consciously. The student learns what methods of study are usually less valuable, which are more valuable.

Students perform numerous and varied experiments. They

experiment in how to read with best results, how to read facts, how to recall and organize what they have read or studied. They work at methods of solving problems, of analyzing problems, of developing solutions to problems, of testing solutions.

In fact, this whole course has to do with "What is the best way to study."

## COURSES OFFERED IN SOPHOMORE YEAR

### ADVANCED ACCOUNTING

This is a continuation of the study of accounting principles and practice emphasizing the accounting aspects peculiar to the partnership and corporate form of business organizations, and their relation to the legal, economic, and social status of these business organizations.

The completion of this and the first year course will supply the broad knowledge of accounting principles necessary for the ground work of students who intend to specialize in accounting and also to supply the technical knowledge necessary for the intelligent study of related business courses.

The practice work consists of a series of problems in preference to a continuous set of books so that the management point of view rather than the bookkeeping viewpoint is developed.

The operation of accounting records peculiar to the corporate form of organization are treated in detail, manufacturing records, factory control, and the statements especially adapted to industrial operations are developed by numerous practice problems.

### BUSINESS FINANCE

The primary purpose of this course is to give students a knowledge of the way small, moderate, and large businesses arrange their financing. A secondary purpose is to give elementary information which will be of assistance to students in after life in investing their savings. The course includes a study of common types of business organization; promotion and the investigation of the feasibility of new enterprises; long-time borrowing; raising permanent capital for unincorporated businesses and for corporations; obtaining temporary funds; financial aspects of purchasing, producing and selling goods and materials; the proper disposition of earnings; and financial difficulties.

## INDUSTRIAL MANAGEMENT

A course intended to introduce the students to the facts and problems of running a productive enterprise. The course begins with three months of introductory lectures covering the background of industrial organization. During this time there is a rapid survey of industrial history and industrial geography with some attention to problems of location; brief descriptions of factory layout and construction; the principal points of psychology and the human problems involved in factory work; labor organizations and incentives; and the fundamentals of cost finding. After this introductory period, details of factory methods, organization, production, material and labor control are discussed in the light of the background material.

## MARKETING PROBLEMS

The object of this course is to acquaint the students with methods of distributing merchandise; in particular the relations of the manufacturer and the wholesaler to the retailer and that of the retailer to the ultimate consumer. The course is conducted by the problem method and a variety of actual situations in industries and trades today are presented for solution. The course is intended to develop analytical powers in students so they may decide a business proposition from the viewpoint of an executive.

The specific topics discussed during the year are as follows: the consumer's point of view; types of retail distribution, their functions and costs; methods of marketing employed by wholesalers and manufacturers; studies of sales management, trade marks, advertising policies, and price policies.

## OCCUPATIONAL SURVEY

The purpose is to assist the student in a choice of courses for the junior and senior years, to gain a knowledge of opportunities in the business occupations, and to learn how to analyze an occupation which he may be considering for a career.

The program consists of individual required readings, group readings, assignments, and class discussions; business survey technique; trips to leading business firms; lectures by successful leaders in important business occupations; regional opportunities; and individual conferences of students with the instructor.

## COURSES OFFERED IN JUNIOR YEAR

### ADVANCED BUSINESS FINANCE

This course deals with the financing of business enterprise mainly corporations, stressing specially promotion, the various types of securities as bonds, preferred and common stock, expansion, reorganization, combination, trusts, government regulation of industry, peculiarities connected with financing of railroads, other public utilities and industrial corporations and the significance in financing of the business cycle.

### ADVERTISING CAMPAIGN

This course is designed to afford an opportunity for more concentrated study of special problems in the field of advertising. The comparative function of the Advertising Department to other business departments, the advertising agency arriving at an advertising quota, determining the extent and density of the market and the layout of a complete advertising campaign form a basis for outside work and class discussion. The problem method is used to some extent and various successful campaigns inaugurated by national advertisers are studied carefully. The students are required to develop experimental and statistical material in the marketing field and use this as a basis for mutual discussion and criticism.

### ADVERTISING PRINCIPLES

The principal purpose of this course is to analyze the factors which control human action in buying and selling. The economic background of the subject and its development is presented together with such problems as, human instincts, buying habits, argumentative and suggestive appeals, cold headlines, layout, illustrations and trade marks. The students are required to make a comprehensive study of market analysis using specific industries as a background. Advertising costs and the effectiveness of newspapers, magazines, billboards and direct mail also form a part of the work of the year.

### BUSINESS STATISTICS

This course is designed to give the student an understanding of the elementary principles of statistics. Introductory lectures will cover the historical development of statistical science, the relation of statistics and modern business and the uses and limitations of statistical methods. A study will be made of the sources and collection of statistical data, the analysis and presentation of the material collected and the characteristics of

uses of the various averages and index numbers. Methods of comparison will be considered with a special reference to correlation, lag, secular trend and seasonal variation. The work of the course will be supplemented by a variety of practical problems involving the principles and methods studied.

The work of the second semester will include the study of business fluctuations, business cycles—causes and control, the various indices used to interpret the trend of business conditions and the analysis of several of the well known statistical services. Practical application of the principles considered will be made in the study of the underlying factors in the major industries and the development of a master problem involving the use of general statistical methods.

#### **COST ACCOUNTING**

The object of this course is to familiarize the students with the method and technique of determining costs and to give them training in the analysis of various types of cost problems. The first semester is devoted to a study of problems dealing with the three elements of costs: namely, material, labor, and overhead. The second semester is divided into two parts. The first part covers the distribution of overhead, particular attention being given to specific items of expense. A presentation of cost systems for representative industries comprises the work of the second part.

#### **ELEMENTARY COMMERCIAL BANKING**

This course offers the student a knowledge of the problems of the individual bank, of the banking system and of international finance, dealing specially with money theory, protection of bank credit, lending policy, administration, relations with the government, political difficulties, business cycles, theories of crises, stabilization of the price level, farm loan financing, the foreign exchanges, and such foreign banking systems as those of England, France, Germany, Canada, and the South American countries in comparison with the Federal Reserve System.

#### **ELEMENTARY C. P. A. PROBLEMS**

This course aims to develop the broad viewpoint, analytical power and constructive ability necessary to properly apply a knowledge of accounting principles to specific problems.

The class discussions and assigned problems cover cases in the determination of profits; the analysis of statements; the

formation and dissolution of partnership organizations; corporations and trusts; accounting for insolvent concerns; realization and liquidation, the application of funds and the accounting for variations in profits.

#### MONETARY PRINCIPLES

This course covers the fundamentals underlying modern banking organization. It deals with such things as the nature of money, functions of money, coinage and legal tender, Gresham's Law, bimetallism, the single standard, government paper money, banking functions and the banking system.

#### PROBLEMS IN SALES MANAGEMENT

The discussion of the sales organization, sales research and planning, policies relating to the sale of products including distribution, selling methods, management of the sales force and control of sales operations are the main subjects covered in this course.

#### SPECIAL RESEARCH PROBLEMS

Each student in the junior year is required to take, in addition to his regular four class room courses, a research course. The student, co-operating with his faculty advisor, selects one of three business subjects in which he has a special interest. Within the first six weeks of his junior year he selects finally the subject on which he will do research work for the year. The study is carried on as follows: broad reading in the field involved, discussion with business men acquainted with the problem, individual surveys of the business involved, where possible; outlining of the problem in general, discussions with the faculty advisor concerning all aspects of the problem and of the outline, the results of conference outlines and further study thrown into the form of a thesis of ten to twenty-five thousand words.

Quality not quantity is the chief consideration in this research work. The chief aim is two-fold: first, to test and to train the students power of original research and creative thinking; second, to give the student the practical experience which every executive needs in the assembling of masses of material of sifting that material, and of drawing logical conclusions tested by rigorous reasoning.

#### SPECIALIZED ACCOUNTING SYSTEMS

The aim of this course is to teach the students to consider all of the data of any business and from a careful study of it, to

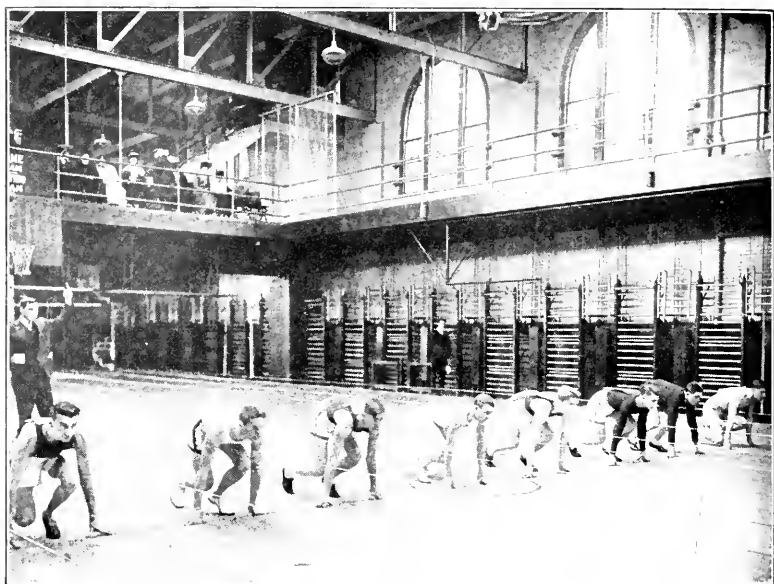




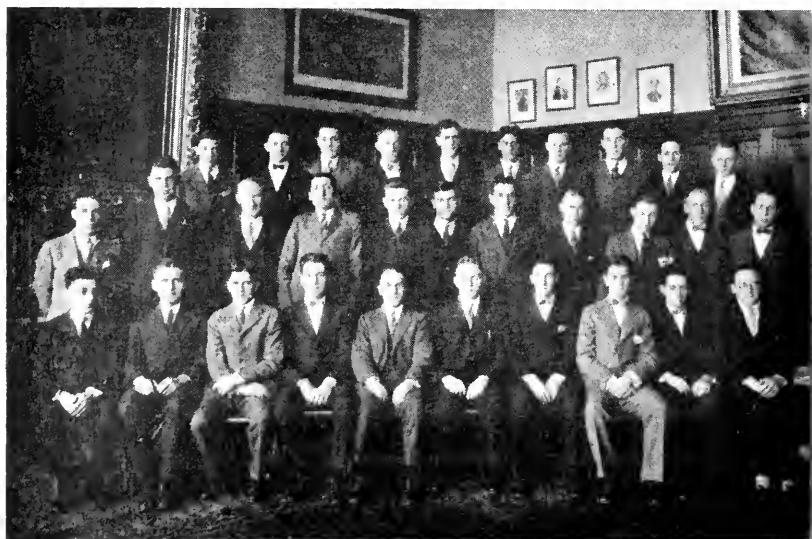
CONFERENCE ROOM AND OFFICE OF THE BULLETIN STAFF  
HERE FACULTY AND STUDENTS CONFER AS SENIOR AND JUNIOR EXECUTIVES



A GROUP STUDIES PLANT AND METHODS OF THE AMERICAN  
SUGAR REFINING COMPANY



TRACK PRACTICE IN THE "GYM"



A TYPICAL STUDENT GROUP

devise a system that will best meet the needs of that business. The first semester is devoted to a study of the accounting systems required by small retail organizations. An analysis of the accounting systems required by large scale businesses comprises the work of the second semester. The course is conducted on a problem basis. The problems illustrate the systems actually in use in various types of businesses at the present time.

## COURSES OFFERED IN SENIOR YEAR

### ADVANCED COMMERCIAL BANKING

This course covers the study of types of bank loans, conditions of bank solvency, problems of bank regulations, branch banking, discount markets and the theory of the discount rates, state bank membership, and rediscount methods and policies.

### ADVANCED C. P. A. PROBLEMS

The purpose of this course is to provide for the application of the knowledge of accounting principles and practice gained in the preceding accounting courses to the analysis and solution of complex problems involving recognition of the economic, legal, and social aspects of all forms of business organizations.

The work of the course covers thorough class demonstrations and assigned cases; estate accounting for administrators and executors, depreciation, appraisals, depletion; goodwill; temporary and permanent investments; funds and related reserves; consolidated statements; financing through stock and bond issues; fire and life insurance.

### ADVANCED ECONOMIC PROBLEMS

A study of specially selected phases from the fields of money and banking, corporation finance, taxation, international trade, labor problems, transportation and general economic theory with special reference to its relation to psychology, sociology, philosophy and the physical sciences.

### ADVANCED ECONOMIC THEORY

This course is the opposite in method and in content to the course in Advanced Economic Problems. Advanced Economic Theory presents a broad comprehensive survey of the history of economic thought, of economic development, and of economic trend. It draws into its survey the fields of psychological and sociological influence upon economic aspects of life. It

takes the crucial situations in human progress and analyzes the conceptions and beliefs involved in these situations as well as the actions resulting from them and attempts to understand the economic theory which was applied. From these analyses is worked out a comprehensive breadth of view with respect to present economic life and an attempt is made to formulate a basis for forecasting with relative accuracy the economic developments of the near future.

### AUDITING

The course contemplates the application of accounting knowledge to the analysis and interpretation of accounting records.

Specific cases are used for outlining the mode of procedure best adapted to the intelligent examination of accounting records and the compilation of reports on which the management can base their plan for future operations and reports which present essential information for investment purposes. Balance sheet audits, detail audits, and special investigations for credit and other purposes receive due attention. The preparation and proper preservation of working papers is an essential feature of the course. Methods of establishing and maintaining internal checks and accounting control are brought out by class room discussions and assigned cases approximating actual cases. Stress is laid on the matter of report writing and the compilation of statements and schedules that will be intelligible to the business man who is not an accountant.

### COMMERCIAL AND BANK CREDITS

A thorough training in the problems of credit from the standpoint of the banker and the business man. The organization of the credit department, methods of analyzing credit information, co-operative methods of credit investigation, analysis of financial statements, collection principles and policies, legal aids of credit management, and credit insurance

### INVESTMENT BANKING

This course is designed not only for men planning to enter the investment banking field but also for those who may at some time be called upon to invest funds either for themselves or for others.

The fundamental and derivative principles of investment are studied, together with the work of the investment banker, and the analysis of investment accounts.

### **MERCHANDISING METHODS AND POLICIES**

This course is designed to co-ordinate in complex problems the fundamental aspects of the distribution field. A student takes so many separate specific courses that it is highly desirable for him to take one or two co-ordinating courses. Through such courses he develops the habit of viewing his problems from all important angles. He thinks of a decision not only from the standpoint of the immediate but also with respect to the possibility of establishing a policy for the future. He studies the problem of one department in the light of its relation to other departments in the institution. In other words, through the study of broadly complex problems of methods and policies the student learns to view his organization as a whole rather than to see only his particular form in the organization.

### **PERSONNEL PROBLEMS**

The purpose of this course is to learn the methods and aims in control of employees, so that when the potential sub-executive graduates he can appreciate better his relations to his superior and in turn control better the working behavior of those responsible to him.

The personal audit includes working conditions, sources of help, interviewing, hiring, job analyses, job specification, introduction, training, transfer, promotion, promotion control, safety, health, insurance, benefits, incentives, absenteeism, fatigue, employee's and employer's joint relations, and work councils.

Research by pairs of students through the co-operation of many New England industries and commercial firms is a losing and important part of the program.

### **PRINCIPLES OF PSYCHOLOGY**

This course involves a general survey of several divisions of psychology. It begins with a treatment of principles relating to human action and motivation, instinctive impulses, the learning process, and emotion, and passes to a consideration of sense perceptions, imagery, imagination and the like. It is then concerned with questions of individual difference in various capacities and the discovery of such differences, and this in relation to vocational guidance, employment management and other subjects of applied psychology.

### **PUBLIC UTILITY FINANCE**

Financing of public utility through management of borrowed capital, the issuing of securities, a study of the types of securi-

ties which may be issued by public utility and methods of disposing of securities.

#### **PURCHASING PROBLEMS**

This course covers broadly the purchasing agent's place in the business organization—his authority, his rank, his opportunities, the abilities required. The course covers methods and processes of buying, methods of market analysis, the element of services. It involves a careful analysis of purchasing department organization and operation. It covers sources of supply, requisitions, specifications, rush orders, efficiency methods, delivery, receiving, inspecting, and standardization.

#### **SPECIAL RESEARCH PROBLEMS**

Each student in the senior year is required to take, in addition to his regular four-class room courses, a research course. The student, co-operating with his faculty advisor, selects one of three business subjects in which he has a special interest. Within the first six weeks of his senior year he selects finally the subject on which he will do research work for the year. The study is carried on as follows: broad reading in the field involved, discussion with business men acquainted with the problem, individual surveys of the business involved, if possible; outline of the problem in general, discussions with the faculty advisor concerning all aspects of the problem and of the outline, the results of conference outlines and further study thrown into the form of a thesis of ten to twenty-five thousand words.

Quality not quantity is the chief consideration in this research work. The chief aim is two-fold; first, to test and to train the student's power of original research and creative thinking; second, to give the student the practical experience which every executive needs in the assembling of masses of material, of sifting that material, and of drawing logical conclusions tested by rigorous reasoning.

## COMBINATION OF DAY AND EVENING COURSES

Affiliation with the Evening School of Commerce and Finance permits, in the upper years, an unusually broad range of elective studies for purposes of specialization. Certain courses may be taken in the School of Commerce and Finance, especially those courses of such extremely specialized nature that few day school students would be enrolled in them. In other cases, when practical business experience counts heavily in the instruction, students may be required to take such courses in the evening under teachers who bring their everyday experience to bear on the problems of study.

When students desire a course not offered in the day school but offered in the evening school, if such course meets the requirements as to elective work, permission to take it in the evening must be obtained. In the event of conflict of courses, one course involved may be taken in the evening.

In general, the credit for evening courses will not be identical with that of like subjects in the day school; but in the instance of courses offered only in the evening school and required for the day school students the credit will be given for a full course or a half course in the day school upon completion of a full course or half course as the case may be in the evening school. Each case must meet the approval of the Dean of each school.

## ALTERNATION, OMISSION, OR CHANGE OF COURSES

The School reserves the right to alternate, omit, or to change any course or courses offered in any curriculums, without formal notification.

ROSTER OF STUDENTS  
SCHOOL OF BUSINESS ADMINISTRATION

NAME	YEAR	HOME ADDRESS
A'Hearn, William J.	1926	Dorchester
Allen, Joseph C.	1928	Meredith, N. H.
Applebaum, Jacob	1929	Quincy
Asnes, Myer W.	1929	Quincy
Astrachan, Carl P.	1929	Revere
Audano, Joseph	1928	East Boston
Bacigalupo, Edward J.	1926	West Somerville
Baketel, John V.	1929	Methuen
Barker, George B.	1929	Concord
Baxt, Albert	1927	Dorchester
Beal, Stanley W.	1929	Foxboro
Bean, George M.	1927	White River Jct., Vt.
Belotti, James	1929	Bradford
Bender, Edward J.	1929	Arlington
Bengston, Algoth W.	1929	Everett
Berry, Laurence J.	1929	Bryantville
Bertrand, Vincent J.	1929	North Grafton
Biagi, Leon J.	1928	Boston
Blair, J. Robert	1928	Everett
Blake, Winston A.	1928	Bradford
Blanchard, Kendall	1929	Boston
Bliss, Charles H.	1929	Somerville
Bobula, John E.	1928	Jamaica Plain
Bradley, Samuel W.	1929	Lynn
Brown, Irving A., Jr.	1927	Southbridge
Burke, John W.	1928	Somerville
Caldwell, Charles C.	1929	Medford
Campbell, Francis J.	1926	Boston
Capone, Angelo J.	1929	Roslindale
Carlton, Edward A.	1929	Somerville
Carpenter, Benjamin D.	1927	Richford, Vt.
Casey, Joseph N.	1929	Lowell
Chainey, Real J.	1929	Revere
Chipman, Frederick V., Jr.	1927	Dorchester
Clark, Donald W.	1929	Conway
Cohen, Samuel I.	1929	Dorchester
Conine, Gamaliel T.	1929	Prattsburgh, N. Y.
Conway, Daniel J.	1927	Shrewsbury
Cook, Maxwell W.	1929	W. Medford
Corr, John J.	1929	Cambridge
Cortazze, Harry A.	1927	Revere
Cotton, Grant F.	1927	Melrose
Crawford, Arthur	1926	Barre, Vt.
Crawford, Theodore	1926	Allston
Critchett, John E.	1929	Rockport
Critchett, J. Russell	1927	Rockport
Crowell, Edgar P.	1928	Melrose Highlands
Cummings, Archie N.	1928	Winthrop
Dailey, Joseph D.	1928	Jamaica Plain
Damrell, Charles R.	1929	Medford
Danberg, Maurice	1929	Dorchester
Danforth, Warner C.	1927	Woburn
Davenport, George	1928	Brighton



*School of Business Administration*

---

NAME	YEAR	HOME ADDRESS
Davis, Harry M.	1929	<i>Natick</i>
Davis, Louis	1929	<i>Boston</i>
DiBona, Michael	1927	<i>Quincy</i>
Dine, Herman	1929	<i>Lynn</i>
Donovan, T. Joseph	1929	<i>Hyde Park</i>
Douglas, Neiland J.	1927	<i>Beverly</i>
Downey, Thomas H.	1927	<i>Boston</i>
Eaton, John F.	1928	<i>Utica, N. Y.</i>
Eglichen, Maurice	1929	<i>Roxbury</i>
Eldridge, Arthur L.	1927	<i>Dorchester</i>
Elliott, Charles E.	1929	<i>Danvers</i>
Ellison, Ben M.	1928	<i>Quincy</i>
Epstein, Sheppard M.	1928	<i>Roxbury</i>
Eriksen, Erik C.	1929	<i>Dorchester</i>
Erskine, Wilbur A.	1929	<i>Hyannis</i>
Ewer, Alfred	1927	<i>Jamaica Plain</i>
Ewer, Richard V.	1926	<i>Jamaica Plain</i>
Falk, Joseph	1928	<i>Allston</i>
Faulds, Thomas C.	1929	<i>Wollaston</i>
Fennell, G. Raymond	1926	<i>Everett</i>
Flagg, R. Alden	1929	<i>Worcester</i>
Forsyth, Joseph L.	1929	<i>Mattapan</i>
Foster, Horace H.	1929	<i>Beverly</i>
Fraser, Harold A.	1928	<i>Lowell</i>
Fulham, John A.	1927	<i>Winthrop</i>
Garniss, Charles	1928	<i>Melrose</i>
Gendron, A. Wallace	1928	<i>Winchendon</i>
Gendron, Paul E.	1928	<i>New Bedford</i>
Grant, Earl R.	1928	<i>Dorchester</i>
Graves, Lawrence W.	1928	<i>Walpole, N. H.</i>
Greco, Louis C.	1929	<i>Boston</i>
Greenstein, Hyman	1927	<i>Dorchester</i>
Gurney, Charles S., Jr.	1929	<i>Wareham</i>
Hadjian, Edward A.	1929	<i>Dorchester</i>
Hammer, Joseph J.	1928	<i>Danbury, Conn.</i>
Harlow, Walter E.	1928	<i>Attleboro</i>
Haslam, Robert	1928	<i>Jamaica Plain</i>
Hatch, Paul R.	1927	<i>New Milford, Conn.</i>
Haynes, Stanley N.	1929	<i>Haverhill</i>
Haynes, Walter W.	1929	<i>Bangor, Me.</i>
Hopkins, Edmund A.	1928	<i>Allston</i>
Hulbert, Alvin C.	1929	<i>Westboro</i>
Jacobsen, Magne A.	1929	<i>Stratford, Conn.</i>
Jeffrey, William E.	1927	<i>Salem</i>
Johnson, John E.	1926	<i>Maynard</i>
Joly, Oirla J.	1929	<i>Salem</i>
Josephson, Abraham H.	1928	<i>Boston</i>
Josephson, Samuel	1928	<i>Boston</i>
Keenan, Gerald F.	1928	<i>Mattapan</i>
Keller, George E.	1929	<i>Waban</i>
Kelligrew, John F.	1928	<i>Dorchester</i>
Kesselman, Charles W.	1928	<i>Roxbury</i>
Kimball, Henry S.	1929	<i>Newtonville</i>
King, Andrew H.	1926	<i>North Dartmouth</i>
Knowles, Gordon P.	1928	<i>Melrose</i>
Kobera, William F., Jr.	1928	<i>Westfield</i>
Kocher, John F.	1929	<i>Suffern, N. Y.</i>

*Northeastern University*

NAME	YEAR	HOME ADDRESS
Kupersmith, Joseph	1929	<i>Boston</i>
Lamprey, Wesley C.	1929	<i>Forest Hills</i>
*Lane, Daniel A.		<i>New Bedford</i>
Lapadule, Joseph	1929	<i>Lawrence</i>
Lapham, Ralph P.	1929	<i>Concord Junction</i>
Larson, Lambert F.	1929	<i>Attleboro</i>
Latimer, Russell H.	1929	<i>Leominster</i>
Lawson, Henry W.	1927	<i>Bristol, Conn.</i>
Leary, J. Frank	1929	<i>Attleboro</i>
Levin, Joseph F.	1929	<i>Lowell</i>
Levitov, Allen A.	1928	<i>Roxbury</i>
Lifner, Eric T.	1929	<i>Belmont</i>
Lipman, Jacob H.	1929	<i>Dorchester</i>
Lipsett, Richard C.	1929	<i>Salem</i>
Loring, Maynard N.	1929	<i>Swampscott</i>
Lummus, Roger C.	1926	<i>Lynn</i>
Lynch, Thomas J.	1929	<i>Attleboro</i>
MacGregor, Forbes	1929	<i>Roslindale</i>
Mahoney, Neil T.	1929	<i>Newton Upper Falls</i>
Malinow, Samuel H.	1929	<i>Lynn</i>
Marr, Daniel F.	1928	<i>Dorchester</i>
Marshall, Stanley N.	1929	<i>Gardiner, Me.</i>
Matheson, J. Douglas	1928	<i>Springhill, N. S.</i>
Martin, Robert D.	1929	<i>Winthrop</i>
Mattson, Karl R.	1929	<i>Dorchester</i>
Merrill, Sewell O.	1928	<i>Watertown</i>
Merry, Harold E.	1929	<i>Salem, N. H.</i>
Michelmores, Howard H.	1929	<i>North Andover</i>
Michelson, Henry	1929	<i>Dorchester</i>
Michelson, Leo	1928	<i>Dorchester</i>
Miner, Henry N.	1928	<i>North Attleboro</i>
Moir, Kenneth L.	1927	<i>Arlington</i>
Mullen, Frederic J.	1928	<i>Dedham</i>
Murphy, Ethan E.	1929	<i>Watertown</i>
Murphy, John A.	1929	<i>Campello</i>
Murphy, Richard L.	1928	<i>Wollaston</i>
Murray, George S.	1929	<i>Weymouth</i>
Murray, Henry R.	1929	<i>E. Braintree</i>
Nadell, Henry H.	1928	<i>Allston</i>
Nelson, Raymond L.	1926	<i>Farmington, Conn.</i>
Nemser, Samuel S.	1927	<i>Dorchester</i>
Nessen, Saul O.	1927	<i>Dorchester</i>
Norton, John J.	1929	<i>Dorchester</i>
O'Brien, Charles E.	1929	<i>Medford</i>
*O'Brien, Edward A.		<i>Worcester</i>
Oliva, Victor E.	1929	<i>Brighton</i>
Orrok, John H.	1929	<i>Dorchester</i>
Pearson, Oscar G.	1928	<i>Lynn</i>
Pender, Daniel M.	1928	<i>Ayer</i>
Piotrowski, Theodore A.	1929	<i>Wadsworth, Ohio</i>
Platt, Harry T.	1929	<i>Lawrence</i>
Pope, Charles A.	1929	<i>Dorchester</i>
Preston, Alston L., Jr.	1929	<i>Leominster</i>
Price, Henry	1929	<i>Dorchester</i>
Pringle, James H.	1929	<i>E. Rochester, N. H.</i>
Puckey, John A.	1929	<i>Auburndale</i>

\*Special Student

# *School of Business Administration*

NAME	YEAR	HOME ADDRESS
Rabatsky, Milton	1929	<i>Boston</i>
Raymond, Harvey N.	1928	<i>Jamaica Plain</i>
Reed, Charles E., Jr.	1927	<i>Fall River</i>
Reed, Thomas H.	1929	<i>Taunton</i>
Reedy, William J.	1926	<i>Cambridge</i>
Rhodes, R. I., Jr.	1928	<i>Attleboro</i>
Rich, John E.	1927	<i>Isle au Haut, Maine</i>
Risman, Abraham D.	1928	<i>Medford</i>
Rodd, Robert A., Jr.	1926	<i>Walertown</i>
Rogovin, Edward	1927	<i>Roxbury</i>
Roy, Paul E.	1927	<i>Manchester, N. H.</i>
Rubenstein, Harry H.	1929	<i>Roxbury</i>
Ryan, John E.	1926	<i>Brighton</i>
Sadow, Leo	1927	<i>Boston</i>
Sampson, Leonard	1928	<i>Fall River</i>
Sargent, Herbert H.	1927	<i>Dorchester</i>
Schatz, Edward A.	1928	<i>Dorchester</i>
Scribner, Warner B.	1927	<i>St. Johnsbury, Vt.</i>
Shepard, Maitland C.	1928	<i>New London, N. H.</i>
Sherman, Wendell B.	1929	<i>Fall River</i>
Shiff, Victor A.	1927	<i>South Duxbury</i>
Sison, Modesto O.	1929	<i>Brookline</i>
Smith, Robert G.	1929	<i>Fitchburg</i>
Smith, Roger H.	1929	<i>Melrose</i>
Snyder, Benjamin	1928	<i>Roxbury</i>
Sperber, Nathaniel	1928	<i>Winthrop</i>
Steinberg, Hyman	1927	<i>East Boston</i>
Steinberg, Irving I.	1929	<i>Lawrence</i>
Steinberg, Joseph	1928	<i>Cambridge</i>
Stavrinos, John M.	1929	<i>East Boston</i>
Steen, Edward T.	1929	<i>Fall River</i>
Stewart, Alexander Jr.	1929	<i>Norton</i>
Stewart, Gordon J.	1926	<i>Cambridge</i>
Stokes, Russell M.	1928	<i>Melrose</i>
Stoner, Owner	1928	<i>Atlantic</i>
Stowers, Thurston B.	1929	<i>Milford</i>
Sudnovsky, Max D.	1929	<i>Lynn</i>
Sullivan, Edward F.	1928	<i>Auburndale</i>
Swanson, Elmer	1927	<i>Lynn</i>
Syak, Tufic J.	1929	<i>Boston</i>
Tatton, Gerald R.	1928	<i>Medford</i>
Tellier, Raymon D.	1928	<i>Lowell</i>
Thomas, Stanley N.	1928	<i>Green Harbor</i>
Tierney, Thomas J.	1927	<i>Winthrop</i>
*Tsigas, Ioannis		<i>Dracut</i>
Tucker, Laurence W.	1929	<i>Melrose Hlds.</i>
Ulanoff, Morris	1929	<i>New London, Conn.</i>
Volk, Leo F.	1928	<i>Dedham</i>
von Ladau, Erik	1929	<i>Brookline</i>
Wakefield, Milan K.	1929	<i>Gardiner, Me.</i>
Waller, Frederick M.	1927	<i>Gaylordsville, Conn.</i>
Washburn, Roger F.	1929	<i>W. Medford</i>
Weinberg, Leslie J.	1929	<i>Allston</i>
Whelden, Harry C.	1929	<i>Cohoes, N. Y.</i>
White, William M.	1929	<i>Forest Hills</i>
Whitney, Raymond D.	1929	<i>Haverhill</i>

\*Special Student

*Northeastern University*

---

NAME	YEAR	HOME ADDRESS
Whittum, George H.	1929	<i>Atlantic</i>
Winch, Frederick B.	1929	<i>Canaan, N. H.</i>
Winch, Thomas S.	1929	<i>Canaan, N. H.</i>
Wolff, William L. G.	1928	<i>Milton</i>
Worden, Robert E.	1929	<i>Newton</i>
Zitter, Samuel	1928	<i>Mattapan</i>

RESIDENCE OF STUDENTS BY STATES

Massachusetts.....	199
New Hampshire.....	8
Connecticut.....	7
Vermont.....	4
New York.....	4
Maine.....	4
Ohio.....	1
Nova Scotia.....	1
Total.....	<u>228</u>

## LIST OF COURSES OFFERED

Subject	Curriculum	Year	Semester	Recitation per week
Advanced Accounting	All	2	I & 2	3
Advanced Business Finance	All	3	I & 2	3
Advanced Commercial Banking	2	4	I	3
Advanced C. P. A. Problems	3	4	I & 2	6
Advanced Economic Problems	1	4	I & 2	3
Advanced Economic Theory	2-3	4	I & 2	3
Advanced English Composition	All	2	I	3
Advertising Campaigns	1	3	2	3
Advertising Principles	1	3	I	3
Auditing	3	4	I & 2	3
Business Finance	All	2	I & 2	3
Business Statistics	All	3	I & 2	3
Commercial & Bank Credits	2	4	2	3
Cost Accounting	2-3	3	I & 2	3
Elementary Accounting	All	2	I & 2	5
Elementary Commercial Banking	2	3	2	3
Elementary C. P. A. Problems	3	4	I & 2	3
English Composition	All	1	I & 2	3
English Literature	All	2	2	3
Fundamentals of Business Adminis- tration	All	1	2	4
Fundamentals of Business Organiza- tion	All	1	I	4
Investment Banking	2	4	2	3
Marketing Problems	All	2	I & 2	3
Merchandising Methods & Policies	1	4	I & 2	3
Monetary Principles	2	3	I	3
Occupational Surveys	All	I & 2	I & 2	4
Personnel Problems	1	4	2	3
Physical Training	All	1	I & 2	2
Principles of Psychology	All	4	I	3
Problems in Sales Management	1	3	I & 2	3
Psychology	All	4	2	3
Public Utility Finance	2	4	I	3
Purchasing Problems	1	4	I	3
Retail & Wholesale Organization	All	1	I & 2	3
Special Research Problems	I & 2	3	I & 2	3
Special Research Problems	I & 2	4	I & 2	3
Specialized Accounting Systems	3	3	I & 2	3
The Problem Method of Study	All	1	I	3

## INDEX

	Page
Admission Requirements:	
Advanced Standing.....	34
Part-time.....	33
Regular.....	33
Special.....	33
Application for Admission.....	34
Attendance Requirements.....	38
Basic Courses.....	47
Board of Governors.....	5
Business Experience.....	22
Calendar.....	3
Classification of Students.....	33
Combination of Day and Evening Courses.....	69
Conduct.....	40
Co-operative Plan.....	25
Courses, Alternation, Omission or Change of.....	69
Courses Offered.....	76
Curriculums, Organization of	
Distribution Management.....	51
Finance & Financial Management.....	53
Professional and Managerial Accounting.....	55
Description of Courses.....	58
Directions for Reaching Northeastern University.....	28
Educational Aims.....	19
Educational Guidance.....	21
Examinations.....	37
Executive Council.....	6
Evening Courses, Day and.....	69
Faculty.....	8
Faculty Committees.....	10
Fees.....	35
Foreword.....	12
Freshman Courses.....	58
General Information	
Buildings.....	30
Gymnasium.....	31
Libraries.....	31
Natatorium.....	31
Outdoor Facilities.....	31
Recitation Building.....	30
General View of Curriculums.....	49
History of Northeastern University.....	17
Junior Courses.....	62
Junior Certificate, Curriculum leading to.....	57
Key to Map.....	29
Lecturers.....	11
Marking System.....	37
Methods of Instruction.....	19
Offices of Administration.....	7
Orientation Lectures.....	21
Part-time Employment Regulations.....	40
Purpose of School.....	18
Re-examinations.....	38
Refunds and Withdrawals.....	36

# Northeastern University

	Page
Registration:	
Formal.....	34
Late.....	34
Mid-year.....	34
Reports of Students' Progress.....	34
Requirements for Degree.....	35
Requirements for Junior Certificate.....	35
Residence.....	35
Residence of Students.....	71
Roster of Students.....	70
Rules and Regulations.....	35
Senior Courses.....	61
Single Courses.....	55
Size of Classes.....	20
Sophomore Courses.....	60
Student Activities:	
Athletics.....	41
Fraternities.....	41
Honor Fraternity.....	41
Musical and Dramatic Clubs.....	41
Religious Life.....	41
Social Life.....	41
Student Clubs.....	41
"The Bulletin".....	41
University Club.....	41
Student Body.....	20
Trustees.....	1
Tuition Fees.....	31
University Development.....	1
University Influence.....	1
Withdrawals and Refunds.....	3











Date.....

Turner F. Garner, Dean  
Northeastern University,  
School of Business Administration,  
316 Huntington Avenue,  
Boston, Mass.

Dear Sir:

Please send me additional information on the following points

.....

.....

.....

.....

.....

.....

.....

.....

I have completed.....years of high school. Age.....

Name in full.....

Street and number.....

Town.....

State .....



# NORTHEASTERN UNIVERSITY

## DAY SCHOOLS

### SCHOOL OF ENGINEERING

Four-year courses in Civil, Mechanical, Electrical, Chemical, and Administrative Engineering, leading to the degrees of Bachelor of Civil, Mechanical, Electrical, Chemical and Administrative Engineering. Conducted in co-operation with engineering firms. Students earn while they learn. Work conducted at Boston.

### SCHOOL OF BUSINESS ADMINISTRATION

Four-year course in Business Administration leading to the degree of Bachelor of Business Administration. Students may specialize in Industrial Management, Marketing, Finance, Accounting, and Sales Management. A two-year course leading to a Junior Certificate. Conducted on the Co-operative Plan beginning in September, 1927. Work conducted at Boston.

## EVENING SCHOOLS

### SCHOOL OF LAW

(Co-educational)

Four-year course leading to the degree of Bachelor of Laws. Preparation for bar examinations and practice. High scholastic standards. A much larger percentage of graduates have passed bar examinations than of any other evening law school in New England. Work conducted at Boston, and in Divisions at Worcester, Springfield, and Providence.

### SCHOOL OF COMMERCE AND FINANCE

(Co-educational)

Five-year courses in Professional Accounting, Marketing, and Business Administration, with specialization in banking, finance, insurance, and other fields, leading to the degrees of Bachelor and Master of Commercial Science. Special two and four-year courses for those desiring intensive specialization. Work conducted at Boston, and in the Divisions at Worcester, Springfield, Providence and New Haven.

## NON-COLLEGIATE SCHOOLS

### EVENING POLYTECHNIC SCHOOL

Three-year courses offered in the Evening Polytechnic School lead to a diploma in Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemistry or Structural Engineering. The work offered in these courses, while not as extensive as that leading to a degree, meets standard requirements. Students are trained for positions of trust and responsibility.

### NORTHEASTERN PREPARATORY SCHOOL

Courses in usual high school subjects leading to a diploma. Three sixteen-week terms each year. It is possible for students to meet college entrance requirements in from three to five years.

### NORTHEASTERN AUTOMOTIVE SCHOOL

Courses in all phases of the automotive industry with special instruction for owners, salesmen, mechanics, and chauffeurs. Classes are conducted both day and evening.

### DEPARTMENT OF UNIVERSITY EXTENSION

A diversified program of short intensive courses in Blueprint Reading, Public Speaking, Practical Trade Mathematics, Mechanical Drawing, Estimating, Civil Service, English for Educated Foreigners, etc.

For further information concerning any of the above schools, address

NORTHEASTERN UNIVERSITY  
316 Huntington Avenue, Boston, Massachusetts





# Northeastern University Bulletin

VOLUME I

APRIL, 1926

No. 1

## NORTHEASTERN UNIVERSITY SCHOOL OF LAW

(EVENING SESSIONS)



CO-EDUCATIONAL

*Twenty-Ninth Year*

Boston Young Men's Christian Association  
316 Huntington Avenue  
Boston, Massachusetts

Published six times a year by Northeastern University, 316 Huntington Ave.  
Boston, Massachusetts

April, 2 numbers; May, 1; August, 1; January, 2

---

Application for entry as Second Class Matter is pending

---

"Law, as a special branch of human knowledge, is more immediately connected with the highest interests of man than any other which deals with practical affairs."

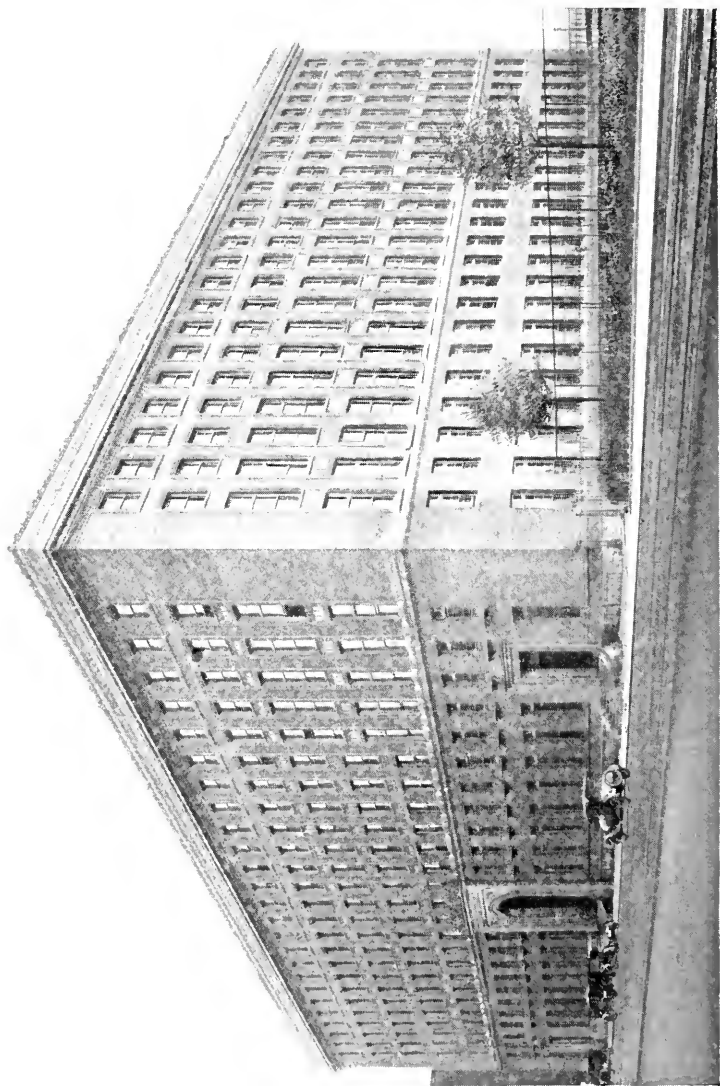
*Oliver Wendell Holmes*

Communications should be addressed to

**NORTHEASTERN UNIVERSITY, SCHOOL OF LAW**  
316 Huntington Avenue, Boston, Mass.

Telephone Back Bay 4400





Y. M. C. A. BUILDING—NORTHEASTERN UNIVERSITY

# NORTHEASTERN UNIVERSITY

## SCHOOL OF LAW

1926 - 1927



EFFECTIVE METHODS OF INSTRUCTION  
HIGH SCHOLASTIC STANDARDS  
SOUND PROFESSIONAL IDEALS

Northeastern University of the Boston Young Men's Christian Association  
is incorporated under the laws of Massachusetts and is located in  
Boston. Divisions are conducted in the Young Men's  
Christian Associations at Worcester, Springfield,  
and Providence.

# CALENDAR

1926	September 8	Registration Commences
	September 8	Senior Class Lectures Begin
	September 13	Junior and Sophomore Class Lectures Begin
	September 20	Freshman Class Lectures Begin
	October 12	Columbus Day (No Class Lectures)
	November 15	Payment of Second Instalment of Tuition Due
	November 25	Thanksgiving Day
	December 17	Last Class Session before the Christmas Recess
	December 27	First Class Session following Christmas Recess
1927	January 1	New Year's Day (No Class Lectures)
	January 3	First Class Session following Christmas Recess Springfield Division
	January 17	Payment of Third Instalment of Tuition Due
	February 22	Washington's Birthday (No Class Lectures)
	March 21	Payment of Last Instalment of Tuition Due
	April 19	Patriots' Day in Massachusetts (No Class Lectures)
	May 30	Memorial Day (No Class Lectures)
	June 5	Baccalaureate Address (Springfield)
	June 8	Commencement (Springfield)
	June 12	Baccalaureate Address (Worcester)
	June 14	Commencement (Worcester)
	June 13	Baccalaureate Address (Providence)
	June 18	Commencement (Providence)
	June 19	Baccalaureate Address (Boston)
	June 20	Commencement (Boston)

## CONDITION EXAMINATIONS, 1926

(Boston)

Wednesday, Sept. 8	Criminal Law, Real Property Business Associations
Thursday, Sept. 9	Agency, Equity I, Trusts
Friday, Sept. 10	Torts, Personal Property, Property III-2
Monday, Sept. 13	Contracts, Bills and Notes, Property III-1
Tuesday, Sept. 14	Sales, Wills

Examinations must be taken at the time they are scheduled as no special examinations will be given.

## TEST SCHEDULES

The schedules for the various tests will be announced prior to each test period.

## OFFICE HOURS

(Boston)

August 16-June 30

Daily (except Saturdays and Sundays) 8.15 a.m.-9.30 p.m.  
Saturdays, 8.45 a.m.-1 p.m.

July 1-August 15

Daily (except Saturdays and Sundays), 9 a.m.-4 p.m.  
Saturdays, 9 a.m.-12 noon  
Mondays, 6.30 p.m.-9 p.m.

# NORTHEASTERN UNIVERSITY

## *Trustees*

ARTHUR STODDARD JOHNSON, *Chairman*

ALBERT HARMON CURTIS, *Vice-Chairman*

GALEN DAVID LIGHT, *Secretary*

ILMAN EDWARD ADAMS	GEORGE CABOT LEE
LFRED HARLOWE AVERY	HENRY GARDNER LORD
ASHINGTON IRVING BULLARD	ERNEST LOVERING
ILLIAM CONVERSE CHICK	FRANCIS POPE LUCE
ALTON LEE CROCKER	WILLIAM EVERETT MACURDA
EWIS ABBOTT CROSSETT	MILTON CRAWFORD MAPES
OBERT GRAY DODGE	EDWARD FULLER MINER
ENRY BRADLEE FENNO	ARTHUR PERRY, JR.
ENJAMIN A. FRANKLIN	THOMAS HASTING RUSSELL
RANKLIN WILE GANSE	SABIN POND SANGER
ENJAMIN WRIGHT GUERNSEY	CHARLES PECK SISSON
HN HENRY HARWOOD	FRANK PALMER SPEARE
ARTHUR LEE	FRANCIS ROBERT CARNEGIE STEELE

## *Board of Governors*

ALBERT HARMON CURTIS, *Chairman*

GALEN DAVID LIGHT, *Secretary*

ILMAN EDWARD ADAMS	ROBERT GRAY DODGE
SA SAMUEL ALLEN	ARTHUR STODDARD JOHNSON
ILLIAM CONVERSE CHICK	WILLIAM EVERETT MACURDA
ALTON LEE CROCKER	FRANK PALMER SPEARE
BERT BROWNE CURTIS	FRANCIS ROBERT CARNEGIE STEELE

## WORCESTER DIVISION

### *Educational Committee*

FREDERICK EUGENE BARTH  
CURTIS ROYAL BLANCHARD  
WILLIAM HENRY BURNHAM  
ZELOTUS WOOD COOMBS  
WARREN GILBERT DAVIS  
JAMES CHERRY FAUSNAUGHT

RAY WOODVILLE GREENE, M.D.  
WILLIAM ALBERT LOTZ  
HARRY GUSTAVUS MANN  
EDWARD FULLER MINER  
ROBERT LINDO MOORE  
PHILIP MAYNARD MORGAN

### *Advisory Board, School of Law*

GEORGE ANTHONY GASKILL  
JUDGE GEORGE RUSSELL STOBBS

WILLIS SIBLEY

## SPRINGFIELD DIVISION

### *Educational Committee*

HAROLD ADAMS BELLOWS  
SETH LEROY BUSII  
BENJAMIN ALVEY FRANKLIN  
BLAKE ALEXANDER HOOVER  
ARTHUR LEE

CHARLES CORNWALL RAMSDELL  
CLARENCE VINTON SAWHILL  
STANLEY OSCAR SMITH  
FRANK DECATUR TAIT  
GEORGE EMERY WILLIAMSON

### *Advisory Board, School of Law*

RALPH WATERBURY ELLIS, Sr.

GURDON WRIGHT GORDON

## PROVIDENCE DIVISION

### *Educational Committee*

RICHARD DAY ALLEN  
ERNEST WILLIAM LANE  
WILLIAM WASHBURN MOSS  
DWIGHT LEETE ROGERS  
NORMAN LEWIS SAMMIS

CHARLES PECK SISSON  
FRANK SWAN  
WILLIAM SWEET  
NORMAN STEPHEN TABER  
LEO ROHE WALTER

### *Advisory Board, School of Law*

WALTER FOSTER ANGELL  
JAMES EDWARD DOOLEY

JOSEPH JEROME HAHN  
GEORGE HENRY HUDDY, Jr.



# NORTHEASTERN UNIVERSITY

---

## *The Executive Council*

FRANK PALMER SPEARE, LL.B., M.H.

*President of the University*

GALEN DAVID LIGHT, A.B.

*Secretary and Comptroller of the University*

CARL STEPHENS ELL, A.B., M.S.

*Vice-President of the University*

EVERETT AVERY CHURCHILL, Ed.D.

*Vice-President of the University*

---

## *Heads of Schools*

### COLLEGIATE SCHOOLS

SCHOOL OF ENGINEERING

Carl Stephens Ell, A.B., M.S., Dean

SCHOOL OF BUSINESS ADMINISTRATION

Turner Flowers Garner, A.M., Ed.M., Dean

SCHOOL OF LAW

Everett Avery Churchill, Ed.D., Dean

SCHOOL OF COMMERCE AND FINANCE

Carl David Smith, B.H., Ed.M., Dean

---

### NON-COLLEGIATE SCHOOLS

EVENING POLYTECHNIC SCHOOL

Thomas Edward Penard, S.B., Associate Dean

NORTHEASTERN PREPARATORY SCHOOL

James Wallace Lees, A.M., Principal

NORTHEASTERN AUTOMOTIVE SCHOOL

Howard Perry Lefavour, Principal

DEPARTMENT OF UNIVERSITY EXTENSION

James Wallace Lees, A.M., Director

# SCHOOL OF LAW

## *General Officers of Administration*

FRANK PALMER SPEARE, LL.B., M.H., *President of the University*  
GALEN DAVID LIGHT, A.B., *Secretary of the University*  
EVERETT AVERY CHURCHILL, Ed.D., *Vice-President of the University and Dean*  
ASA SAMUEL ALLEN, LL.B., LL.M., *Associate Dean*  
SYDNEY KENNETH SKOLFIELD, *Executive Secretary*

## BOSTON

### *Local Officers of Administration*

EVERETT AVERY CHURCHILL, Ed.D., *Dean*  
ASA SAMUEL ALLEN, LL.B., LL.M., *Associate Dean*  
SYDNEY KENNETH SKOLFIELD, *Executive Secretary*

### *Staff of Instruction*

ASA SAMUEL ALLEN, LL.B., *Northeastern University; LL.M., Boston University*  
*Massachusetts Practice, Common Law Pleading, Bar Review, Quizzes*  
*Attorney at Law, Curtin, Poole, Allen & Cooh*  
JAY BERNARD ANGEVINE, A.B., *Williams College; LL.B., Harvard University*  
*Wills*  
*Attorney at Law, Hutchins & Wheeler*  
ARTHUR WILLIS BLACKMAN, B.A., LL.B., *Yale University*  
*Equity I, Quizzes*  
*Attorney at Law, New York, New Haven & Hartford Railroad*  
WILLIAM EDWIN DORMAN, A.B., LL.B., *Harvard University*  
*Constitutional Law*  
*Attorney at Law, Counsel to the Massachusetts Senate*  
ELIAS FIELD, A.B., LL.B., *Harvard University*  
*Real Property*  
*Attorney at Law, Brown, Field & McCarthy*  
GEORGE KNOWLES GARDNER, A.B., LL.B., *Harvard University*  
*Laws of Business Associations*  
*Attorney at Law, Goodwin, Procter, Field & Hoar*  
HAROLD PENDENTER JOHNSON, A.B., LL.B., *Harvard University*  
*Property III-1*  
*Attorney at Law, Johnson & Johnson*  
WALTER BARTON LEACH, A.B., LL.B., *Harvard University*  
*Evidence, Property III-2*  
*Attorney at Law, Warner, Stackpole & Bradlee*  
HUGH DEAN McLELLAN, A.B., *Colby College; LL.B., Columbia University*  
*Contracts*  
*Attorney at Law, McLellan, Brickely & Sears*  
RAYMOND TASKER PARKE, A.M., LL.B., *Harvard University*  
*Bills and Notes, Personal Property, Sales*  
*Attorney at Law*

## *Staff of Instruction — Continued*

- YO ADAMS SHATTUCK, A.B., LL.B., Harvard University  
*Equity II, Suretyship*  
*Attorney at Law, Hutchins & Wheeler*
- CHAR STORER, A.B., LL.B., Boston University  
*Torts*  
*Attorney at Law*
- ERTIS HARVEY WATERMAN, Ph.B., Oberlin College; LL.B., Harvard University  
*Agency, Criminal Law*  
*Attorney at Law*
- VID GREER, LL.B., Northeastern University  
*Quizzes*  
*Attorney at Law, Johnson & North*
- IN BRYANT SAWYER, A.B., Bates College; LL.B., Northeastern University  
*Quizzes*  
*Attorney at Law, Boston & Maine Railroad*
- S. HARRIET MARSH, *Dean of Women*

---

ROY MITCHELL LAWSON, *Registrar*  
MURIEL IRENE TAYLOR, *Recorder*  
RUTH MORSE WARD, *Secretary to the Dean*  
RUTH GERALDINE SPOFFORD, *Bookkeeper*  
MADELINE HAVEY, *Secretary*  
ELMO BASLEY TAYLOR, *Student Assistant, Law IV*  
EDWARD JOSEPH KEELAN, JR., *Student Assistant, Law III*  
ALBERT EDWARD SAUNDERS, *Student Assistant, Law III*  
RICHARD JOSEPH PROUT, *Student Assistant, Law III*  
DAVID BROUDE, *Student Assistant, Law II*  
LAURA ALBERTA SMITH, *Student Assistant, Law II*  
HAROLD BENEDICT BROSS, *Student Assistant, Law I*  
MORRIS GOLDBERG, *Student Assistant, Law I*  
ELMER ALSON BARTLETT, *Student Assistant, Law I*  
EDWARD DANIEL MULLANE, *Student Assistant, Law I*

CAROLYN ESTHER HENDERSON, *Assistant Secretary of the University*  
J. KENNETH STEVENSON, *Bursar of the University*  
MYRA EDNA WHITE, *University Librarian*

# WORCESTER DIVISION

## *Local Officers of Administration*

WILLIAM ALBERT LOTZ, A.B., *Director*  
WILLIAM LEDYARD MITCHELL, *Associate Director*  
EDWIN GATES NORMAN, A.B., LL.B., *Associate Dean*  
HILVE CATHERINE YNGVE, *Registrar*

## *Staff of Instruction*

HARRY HEYWOOD ATWOOD, A.B., LL.B., Harvard University  
*Wills*  
*Judge of Probate*

STANLEY GILMAN BARKER, A.B., Wesleyan University; LL.B., Harvard University  
*Bills and Notes*  
*Attorney at Law*, Thayer, Smith & Gaskell

HOWARD WYMAN COWEE, A.B., Dartmouth College; LL.B., Harvard University  
*Property III-2*  
*Attorney at Law*, Cowee & Fletcher

LEON EDWIN FELTON, A.B., Clark University; LL.B., Harvard University  
*Agency*  
*Attorney at Law*, Registry of Probate

ARTHUR STILLMAN HOUGHTON, B.L., Dartmouth College; LL.B., Harvard University  
*Corporations, Evidence*  
*Attorney at Law*, Thayer, Smith & Gaskell

EDWARD FORRESTER MANN, A.M., Harvard University  
*Real Property I*  
*Attorney at Law*

ARCHIBALD WILLIAM MITCHELL, A.B., Clark University; LL.B., Harvard University  
*Real Property II, Personal Property*  
*Attorney at Law*, William C. Mellish

EDWIN GATES NORMAN, A.M., Yale University; LL.B., Harvard University  
*Criminal Law, Constitutional Law, Massachusetts Practice*  
*Attorney at Law*, Norman & Campbell

CHARLES WATERS PROCTOR, LL.B., Boston University  
*Equity II, Torts*  
*Attorney at Law*, Norman & Campbell

LOUE EUGENE STOCKWELL, Ph.B., Brown University; LL.B., Harvard University  
*Equity I, Contracts, Bar Review*  
*Attorney at Law*, Stobbs, Hartwell & Stockwell

GEORGE AVERY WHITE, LL.B., Harvard University  
*Property III-1, Common Law Pleading*  
*Attorney at Law*, Gage, Hamilton, June & White

# SPRINGFIELD DIVISION

## *Local Officers of Administration*

JOHN DOANE CHURCHILL, A.B., *Director*

WENDELL HINDS BERRY, A.B., M.B.A., *Associate Director*

HORACE JACOBS RICE, B.S., LL.B., *Associate Dean*

ETHEL LUELLA KENNEDY, *Registrar*

## *Staff of Instruction*

HORACE EUGENE ALLEN, A.B., Dartmouth College; LL.B., Harvard University

*Torts*

*Attorney at Law*, Allen, Yerrall and Bellows

ROBERT WARE BODFISH, A.B., Clark University; LL.B., Harvard University

*Bills and Notes, Bar Review, Quizzes, Library Reference*

*Attorney at Law*

ERALD JAMES CALLAHAN, A.B., Yale University; LL.B., Harvard University

*Common Law Pleading*

*Attorney at Law*, Simpson, Clason and Callahan

ERNEST WESTERVELT CARMAN, A.B., LL.B., Harvard University

*Bankruptcy*

*Attorney at Law*

HARLES RUSSELL CLASON, A.B., Bates College; LL.B., Georgetown University; A.B.,  
in Jurisprudence, Oxford University

*Equity, Trusts, Law Review, Quizzes*

*Assistant District Attorney*, Hampden County, Simpson, Clason and Callahan

DOUGLAS CROOK, C.E., D.Sc., London University; LL.B., Northern Indiana University;

LL.M., Boston University

*Property*

*Attorney at Law*, Ellis Title and Conveyancing Co.

HAROLD GARDNER DUNNING, A.B., Harvard University; LL.B., Northeastern  
University

*Agency*

*Attorney at Law*

URDON WRIGHT GORDON, A.B., Williams College; LL.B., Boston University

*Constitutional Law*

*United States Commissioner*

HORACE JACOBS RICE, B.S., Wesleyan University; LL.B., Harvard University

*Wills, Contracts*

*Attorney at Law*

RCHER ROBERT SIMPSON, A.B., Yale University; LL.B., George Washington  
University

*Evidence*

*Attorney at Law*, Simpson, Clason and Callahan

ALPH STEVENS SPOONER, A.B., LL.B., Harvard University

*Massachusetts Practice, Personal Property, Sales, Bar Review, Quizzes*

*Special Justice*, District Court

WILLIAM WOOD YERRALL, A.B., Amherst College; LL.B., Harvard University

*Business Associations*

*Attorney at Law*, Allen, Yerrall and Bellows

ELLA MAY HARVEY, *Recorder*

# PROVIDENCE DIVISION

## *Local Officers of Administration*

LEO ROHE WALTER, A.B., *Director*

RALPH GODDARD WINTERBOTTOM, *Associate Director*

WILLIAM WASHBURN MOSS, A.M., LL.B., *Associate Dean*

AVIS STOKES MACINTOSH, *Registrar*

## *Staff of Instruction*

HENRY MANCHESTER BOSS, JR., LL.B., Yale University

*Corporations*

*Attorney at Law*, Curtis, Matteson, Boss and Letts

SIDNEY CLIFFORD, A.B., Brown University; LL.B., Harvard University

*Wills, Property I, Partnership*

*Attorney at Law*, Sherwood, Heltzen and Clifford

PATRICK PAUL CURRAN, A.M., Manhattan College; LL.B., Boston University

*Torts*

*Attorney at Law*, Green, Curran and Hart

GURNEY EDWARDS, A.B., Brown University; LL.B., Harvard University

*Contracts*

*Attorney at Law*, Edwards and Angell

JOHN RUSSELL FERGUSON, A.B., Brown University; LL.B., Northeastern University

*Bills and Notes, Sales*

*Attorney at Law*, Knauer and Fowler

G. FREDERICK FROST, A.B., A.M., Brown University

*Legal Ethics*

*Attorney at Law*, United Electric Railways Company

OSCAR LEONARD HELTZEN, A.B., Harvard University

*Rhode Island Practice, Common Law Pleading*

*First Assistant Attorney General*, State of Rhode Island

ALFRED HOPKINS LAKE, A.B., Brown University; LL.B., Harvard University

*Equity II, Real Property*

*Attorney at Law*

CHARLES W. LITTLEFIELD, Dartmouth College

*Bankruptcy*

*Attorney at Law*

WILLIAM WASHBURN MOSS, A.M., Brown University; LL.B., Harvard University

*Equity I, Constitution Law*

*Attorney at Law*, Gardner, Moss and Haslam

ALBERT NATHANIEL PETERSON, Ph.B., Brown University

*Property III*

*Assistant United States District Attorney*

EUGENE JAMES PHILLIPS, A.B., LL.B., Yale University

*Evidence*

*Attorney at Law*, New York, New Haven & Hartford Railroad

CHARLES PECK SISSON, A.M., Brown University; LL.B., Harvard University

*Criminal Law, Agency*

*Attorney general*, State of Rhode Island

---

DAVID GREER, LL.B., Northeastern University

*Quizzes*

*Attorney at Law*, Johnson & North

## COMMITTEES

---

### *Committee on Administration*

DEAN CHURCHILL  
ASSOCIATE DEAN ALLEN  
MR. SKOLFIELD

### *Committee on Admission*

DEAN CHURCHILL  
ASSOCIATE DEAN ALLEN  
MR. SKOLFIELD

### *The Divisional Committee*

EVERETT AVERY CHURCHILL  
*Chairman*  
GALEN DAVID LIGHT  
*Vice-Chairman*  
CARL DAVID SMITH  
JOHN DOANE CHURCHILL  
LEO ROHE WALTER  
WILLIAM ALBERT LOTZ  
SYDNEY KENNETH SKOLFIELD  
CAROLYN ESTHER HENDERSON  
*Secretary*

# THE SCHOOL OF LAW

---

## THE STUDY OF LAW

With the growing complexity of American civilization due to an unparalleled development in commerce and industry has come an increased demand for men who are well trained in the law and who combine with the knowledge of law the highest type of ideals and the best legal ethics.

The law treats of nearly every phase of human relationships. It prepares a student to deal effectively with men and affairs; it trains him to think, to think straight, to think a proposition through to the end and then to act in accordance with judgment based on a clean-cut, unbiased analysis of the facts. The habit of analytical thinking and judicial action is indispensable to the practitioner of law. It is equally indispensable to business men, those in political life, and to all who would render the most efficient service to society.

A large number of the most successful men in nearly every field of activity have had a training in law; and the demand for such men is constantly increasing and will continue to increase with the economic and social evolution of the country.

Law Schools have rendered an inestimable service in the past; they will render an even greater service in the future. From the law schools of today must come the leaders of tomorrow. Justice is the keystone of the arch of modern civilization—the lawyer, as an officer of justice, is charged with the preservation and maintenance of all that is true and noble in human society.

“Above all, a lawyer will find his highest honor in a deserved reputation for scrupulous fidelity to private trust and public duty, with the vigor and openness of an honest man and patriotic and loyal citizen.” (Canon of Professional Ethics, Massachusetts Bar Association.) Law Schools must devote themselves to training lawyers who, either in the profession or



other fields of activity, will be efficient and effective in the actual business in which they are engaged, and who will have as ideals in their work, justice and service to mankind.

## THE FOUNDING OF THE SCHOOL

Massachusetts has maintained for a considerable period of time two of the most prominent day law schools in America—the Harvard University School of Law and Boston University School of Law. These schools, however, were not, and have not been able to reach a very large group of highly intelligent and ambitious employed men and women who desire advancement either through preparing for the legal profession or through a law training which might be applicable in their business careers. Prior to 1898 there was a persistent demand for an evening law school which should be thorough in its instruction and conducted in such a manner that its graduates could stand well at the Bar and be recognized as men of professional attainment and ethical standards. In response to this demand Northeastern University School of Law was established in 1898 through the co-operation and under the active guidance of the Hon. James R. Dunbar, Prof. James Farr Ames, then Dean of the Harvard University Law School, and Mr. Samuel Bennett, then Dean of the Boston University School of Law.

Divisions of the Northeastern University School of Law have been established as indicated below. The nature and quality of work offered in these divisions is the same as that offered in Boston—the work being under the same supervision and administration as the Boston work.

From the outset the Worcester Division of the Law School admitted women to its classes. Springfield, in 1921, decided to admit women, effective with the entering class of September of that year. In January, 1922, the trustees of the Northeastern University, acting upon the recommendations of the Corporation of the School of Law, voted to admit women to the school in Boston and in all of the Divisions, subject, so far as the Divisions were concerned, to the approval of the local

boards. This step of the trustees was taken after very careful consideration of the points involved, acting upon the advice of leading legal educators, upon the basis of a persistent demand that women be admitted to the School and upon the experience of outstanding law schools in co-education; it being found that, with the exception of Harvard and Columbia where women have not been admitted, all of the leading law schools of the country are admitting women, with excellent results, to their classes and in full candidacy for their degrees. In view of the fact that classes in the School are already as large as are desirable, only a limited number of mature women who are especially qualified by experience and training to pursue a law course will be admitted to the School each year.

### WORCESTER DIVISION

In April, 1919, the Worcester Division School of Law was officially established and formally announced. Classes did not commence, however, until September of the same year. An Advisory Committee has been of material assistance in guiding the affairs of the School locally and in the selection of the Faculty. The response on the part of the public to the opening of the Worcester Division is best evidenced by the enrolment since its establishment. The entire four-year program is offered. Since the opening of the School in Worcester, women have been admitted as regular students and have made a creditable record in the School.

### SPRINGFIELD DIVISION

The Springfield Division of the School of Law, established in May, 1919, was the second division of the School to be formed. The late Chief Justice Marcus P. Knowlton expressed a great interest in the founding of the Springfield Division when the matter was first proposed in 1915, but, with the coming of the war, plans had to be postponed. The Advisory Committee has been of much assistance in the establishing of this Division and in the selection of the Faculty. Springfield and vicinity have

## *School of Law*

given splendid support to this Division as is indicated by the student body. The complete curriculum is being given. Women are admitted as regular students.

### PROVIDENCE DIVISION

At a meeting held in Providence early in May, 1920, a group of the leading members of the Rhode Island Bar requested the Directors of the Providence Y. M. C. A. to consider the establishment of a division of Northeastern University School of Law in Providence. This meeting was followed two weeks later by a more representative gathering of the Bar at which the request was repeated. Steps were immediately taken by the Y. M. C. A. to meet this request and in October, 1920, the Providence Division School of Law was opened. Incidentally the Providence Division, Northeastern University School of Law, is the only resident law school in Rhode Island granting the LL.B. degree.

An Advisory Board for the School of Law appointed in 1920, consisting of prominent members of the Rhode Island Bar, Messrs. Richard Borden Comstock (deceased), Walter Foster Angell, James Edward Dooley, J. Jerome Hahn and George Henry Huddy, Jr., rendered valuable assistance and guidance in the formation of the School and in the securing of a very capable Faculty. The complete four-year curriculum is offered. Women are not admitted to this Division.

The following resolution was adopted by the Board of Directors of the Providence Chamber of Commerce on May 13, 1920: "Resolved, That the Committee of 100 of The Providence Chamber of Commerce welcomes the establishment of a branch of Northeastern University in the City of Providence, believing it gives an additional opportunity for the education of employed men."

## THE ORGANIZATION OF THE SCHOOL

From the outset the School developed around the following basic principles:

1. A non-proprietary evening law school with high scholastic standards—devoting all of its resources to building up the best type of evening law school.

2. The case method as a basis of instruction: supplemented by lectures and review quizzes.

3. A Faculty made up of men who are graduates of the best law schools, who have achieved success in the legal profession and each of whom possesses, further, the qualifications of a teacher.

4. A sound course of study.

5. High professional ethics and a preparation for the legal profession, not only in a narrow sense, but in the broader sense of service to mankind.

6. Impartial administration—whereby the rules relating to attendance, grading, examinations and scholarship are impartially enforced.

It is a matter of experience on the part of Northeastern University School of Law that the principles enumerated above can be complied with on the part of evening law schools and must be complied with by this type of school; provided the work of these schools is to have any warrant for continuance. An evening law school, such as Northeastern University, which carefully selects its Faculty and its student body, organizes a sound course of study, and insists upon the highest possible ethical standards, can be of incalculable value to society through the training of men who will become efficient leaders. With the tendency from a republican representative form of government to a democratic form of government, in which the people are directly responsible, it is more than ever imperative that men be trained who are capable of the highest type of efficient leadership. It is to this ideal that evening law schools should consecrate their efforts and it is this ideal to which Northeastern University has consecrated its efforts.

## PROGRAM ADAPTED TO NEEDS OF EMPLOYED MEN

Northeastern University School of Law maintains high standards and is constantly solicitous to increase its standards at every point that will make for greater efficiency. Its program is devised for employed men who are occupied at their various tasks during the day and who must find time for both classroom work and study in the evenings. For this reason all the standards and policies of the School, together with its curriculum, have been studied in relation to the needs of students who are employed during the day.

Two things are deemed essential—first, that the School should maintain its work on such a high qualitative plane as will give a student an education fairly equivalent to that offered in a day law school, and, second, that it should adapt its program and its general administrative policies to the employed man or woman whom it is seeking to train effectively. In short, the purpose of the School is to maintain such standards as will enable those employed during the day and who have a reasonable educational equipment before attempting the study of law, to prepare effectively for the bar examinations and the practice of law.

It is believed that the requirements and standards of Northeastern are the minimum compatible with the achievement of this fundamental objective. No student who has the equivalent of a high school education and is employed during the day need hesitate to enter the School because of the fear that the work is adapted to higher standards than the employed man can meet.

## SUCCESSFUL CAREER

The School has proved to be a success. Approximately seven thousand nine hundred and sixty students have been enrolled, including business executives, clerks from the offices of leading attorneys, clerks and officers from every court in Boston, state, city, and government officials, teachers and students from other law schools, and a large number of able men engaged in various other lines of activity. Eighty-seven per cent

of the 1056 graduates who have tried the bar examination have successfully passed. Fifty-three have no record of trial having taken the course for its business training. When the figures are considered in relation to the fact that of 614 men recently examined in Massachusetts only 38 per cent were successful, the success of Northeastern University in preparation for admission to the bar is apparent.

Various reports, alumni letters and other sources of information evidence the fact that those who have completed the required course of study have profited immeasurably by the training which they have received.

## INCORPORATION

In January, 1904, a bill was introduced into the Massachusetts Legislature seeking the incorporation of the School with the power to grant the degree of Bachelor of Laws. The rapid passage of this bill by the legislature, and the cord recognition and endorsement of the School by the bench, the bar, and the heads of our day law and other professional schools, testify in no uncertain terms to the position which the School occupies in the educational activities of the Commonwealth.

## THE STUDENT BODY

Four general groups of students are pursuing the prescribed course in the School:

1. Those who are preparing for the legal profession.
2. Those who are studying law as a means to a more efficient functioning in business. With the increased complexity of business organization due to large scale marketing, large scale production, and the development of means of communication in the form of railroads, and telephone and telegraph it is certain that no training can be of greater value to business executives than a training in law.
3. Students who are uncertain as to their life work and are taking the law as a "finding" course. The study of law, because

deals with practically every phase of human relationship, is an excellent means by which a young man can analyze himself and come to a definite decision concerning his life work.

4. A comparatively large number of the students are taking the study of law for informational and cultural purposes.

The student body is drawn mostly from business and professional men and women, although almost every vocation is represented. For the most part the students are relatively mature—a recent survey showed the average age of the student body to be twenty-seven years and that 30 per cent were over thirty years of age, while 55 per cent were twenty-five years of age or older. The contact with one another of students from various fields of activities and of widely ranging ages is of considerable value as an aid to the development of those personal qualities which tend to make for social efficiency. Over 30 per cent of the students have had at least one year of college work prior to entering the School, more than one-half of these college men having received degrees.

The admission of women, effective September, 1922, has added a valuable element to the student body and has furnished opportunities for law study to a group of highly efficient women who desire personal advancement and a life of professional service. The success of women students in the leading law schools of the country, with the exception of Harvard and Columbia where they have never been admitted, is such as to leave no room for doubt as to the advisability of admitting them to the study of law. Universal suffrage and the consequent opening up to women of various public offices have made it more than ever desirable that women be permitted to enter.

## THE CASE SYSTEM

By far the greater portion of the body of the law is found in the form of adjudicated cases, decisions of courts of last resort which have enunciated the principles of law upon which our present society is based. The practicing lawyer and the judge must be familiar with the leading cases in each branch of the law and must be able to apply them to new sets of facts

which constitute new cases as these cases arise from time to time. In practice the lawyer or the judge must be able to analyze decisions, to appreciate the niceties of legal distinctions and to understand thoroughly and be able to use appropriate legal language. The ability of the lawyer to analyze and to dissect cases is one of the most important requisites to successful practice. Even apart from the necessity to a successful lawyer of a well-developed ability to analyze cases, one finds that the law is a science, the only approved and effective method of teaching which, as is true of all sciences, is the inductive method. In law the decided case is the only basis for scientific teaching, being the foundation of the inductive method as applied to law. For these and many other incontrovertible reasons all of the leading law schools, following the example of Harvard Law School, use the case system. In keeping with the best practices in the best day law schools Northeastern University also uses as the backbone of its instruction the decided case. Standard case-books such as are used at Harvard, Yale, Columbia and other leading law schools are used in each instance.

The policy of Northeastern University with regard to instruction is as follows:

Cases are assigned for reading in advance of the class session and are discussed in the class;

From the cases the fundamental legal principles are clearly deduced with the students in the classroom;

These principles are then tested and fixed in the mind of the students through a discussion of other cases bearing upon the topic under consideration.

The School also utilizes the usual supplementary aids to effective instruction such as frequent tests, examinations, review quizzes, lecture notes and so forth.

In the lecture or text-book system the student's work of analysis has been done for him in advance and he gets his ideas from a second-hand source and not from the original sources themselves. As the text-book trained student goes into practice he finds himself seriously handicapped because



f the lack of the training in case analysis which is essential to successful practice. This is particularly true in view of the rapidly growing body of decisions which makes it essential for the lawyer of today to have a knowledge of many more cases than was formerly necessary and, in addition, an increased facility in case analysis.

On the other hand, the case system trains the students in the same processes which will be of use to them later as lawyers. The lawyer deals almost exclusively with cases and his effectiveness is tested wholly by his ability to analyze and handle cases. The case method thus insures the maximum degree of effective training for successful practice. It is because of this fact that the Northeastern Law School has adopted this method. The effectiveness of the School's graduates in the practice of law and as judges shows conclusively the success of the system.

## ADMISSION REQUIREMENTS

The following are the admission requirements to the School of Law:

1. The applicant must be of good moral character.
2. An applicant for admission as a regular student and candidate for the degree must furnish satisfactory credentials showing that at the time of admission
  - (a) He is at least eighteen years of age, and
  - (b) Has met at least one of the following educational requirements:
    - I. Is a graduate of an approved day high school, or a school of equal grade, or
    - II. Is a graduate of an institution of recognized collegiate grade, or
    - III. Has completed satisfactorily fifteen units\* of secondary school work in an approved day high school or in a school of equal grade.
3. Except in the Providence Division where the Bar requirements call for a high school education, a limited number of special students, not candidates for the LL.B. degree, may be admitted to the School at the discretion of the Committee on Admission and the Dean. Those seeking admission as special students must meet the following requirements at time of admission:
  - (a) Be at least twenty-one years of age.
  - (b) Present satisfactory evidence of maturity and ability to pursue a law course.
  - (c) Furnish evidence of the satisfactory completion of eight units\* of secondary school work.

Those admitted as special students will be required to maintain an average "C" grade while in the School.

The number of special students admitted each year shall

\*A unit represents a year's study in any subject in an approved secondary school, constituting approximately a quarter of a full year's work. A four-year day secondary school curriculum is regarded as representing not more than sixteen units of work.

## *School of Law*

not exceed ten per cent of the average enrolment of the first year class during the two preceding years. Those admitted as special students can in no way subsequently be reclassified as regular students and become candidates for the LL.B. degree.

Special students are reminded that by qualifying as to their general education under the present rules of the Bar Examiners and in addition, meeting the requirements for four years of an approved evening law school, they may become eligible to take the bar examinations of Massachusetts. An LL.B. degree is not necessary in order to be eligible to take the Massachusetts Bar examination.

Such special students as are admitted to the School will be furnished certificates of completion showing the courses which they have pursued and the grades they have attained while members of the School.

4. No special students are accepted by the Providence Division. Students making application for admission to the Providence Division must meet the requirements for admission as regular students under Paragraph 2 above.

5. Women are admitted to the School of Law in Boston and the Worcester and Springfield Divisions under the same conditions as men, that is, under the admission requirements as outlined above. Women are not admitted in the Providence Division of the Law School.

## ADVANCED STANDING

Candidates for admission to advanced standing should file their applications and credentials regarding previous study of law with the Dean. After consideration of the standing of the school and the nature and the extent of the applicant's attendance and scholarship thereat, the School authorities will apprise the applicant of his status as a student upon entering the Law School.

One or two years' attendance at an accredited three-year day law school may be counted as a part of the required four-year period of school attendance.

## *Northeastern University*

Credit for advanced standing will be given to students transferring from evening law schools only upon passing the regular examinations in those courses in which the student obtained a satisfactory grade while attending the certifying school. No examinations for advanced standing will be permitted in those courses in which the student failed to receive a passing grade while attending the certifying school.

### APPLICATIONS FOR ADMISSION

Applications for admission to the School should be filed early as possible in order that the case of each applicant may be thoroughly investigated and his status definitely determined before the opening of school. In every instance a fee must accompany the application blank. On account of large enrolments, it has been found necessary to limit the size of the entering class; for this reason, also, it is vital that those who wish to be assured of admission to the School file their applications well in advance of the opening date.

## ADMINISTRATIVE REGULATIONS

### REGISTRATION

Registration should not be confused with filing the application for admission to the School. Registration takes place during the registration period (see Page 2) for all students, including those entering the School for the first time. Before attending any classes, each student should present himself at the Law School Office to file such registration blanks as may be required, giving such information as may be needed for the University records together with a statement of the courses he is authorized to pursue. To complete his registration he should pay the required fees at the Bursar's Office.

Owing to the delay each year on the part of the students, and the consequent rush on the opening night, those desiring admission are requested to register during the two weeks previous to the opening of the School.

It is of the greatest importance that students attend the lectures from the opening night and receive credit therefor. In order to receive attendance credit students must register and arrange for the payment of their tuition.

In the case of new students, after the application blanks have been filed in the office of the Law School letters have to be written and credentials have to be obtained and acted upon before the students' status can be determined. This necessarily requires considerable time. Manifestly, students should not wait for the status reports but should register and commence work at the beginning of the school year.

### ATTENDANCE UPON LECTURES

The student must attend at least one-half of the lectures and review quizzes in a course in order to be permitted to take the examination therein. No exception is made to this rule.

If the student attends at least three-fourths of the lectures and review quizzes in a course, he is entitled to take the examination therein and will pass if he attains a grade of 60 per cent.

If the student attends between one-half and three-fourths of

## *Northeastern University*

the lectures and review quizzes in a course, he must furnish satisfactory excuse to the Committee on Attendance for the absences under three-fourths in order to be permitted to take the examination therein; and, further, he must attain a grade of 70 in order to pass in such examination.

A student must have an aggregate attendance of at least two-thirds of all the lectures and review quizzes scheduled for him in a given year in order to be enrolled the year following as a regular student.

A student must have an aggregate attendance of at least two-thirds of all the lectures and review quizzes scheduled for him in his entire curriculum in order to qualify in attendance for his degree. No exception is made to this rule.

In order to receive credit for attendance a student must be present in the classroom during the entire period, unless, upon satisfactory excuse, his presence for a shorter period is accepted by the Committee on Attendance.

### PERIOD OF ATTENDANCE

The required period of attendance at the School is four years except for students entering with advanced standing.

In order to receive the LL.B. degree from Northeastern University, students coming from other law schools must make a combined full-time registration of at least four years at the other evening law school and Northeastern University Law School or a combined full-time registration of at least three and one-half years at an accredited day law school and Northeastern University Law School.

In no event shall advanced standing students be permitted to qualify for the degree at Northeastern University School of Law with less than one full and continuous year of attendance.

### EXAMINATIONS

One final examination is regularly given in each course at the close thereof.

All students are expected to present themselves for examinations in all subjects for which they are registered at the first

## *School of Law*

examination held therein. In case of excuse by the Dean for proper cause from any examination, they may take the next examination regularly scheduled in such subject.

One make-up examination is regularly given in September of each year in all junior, sophomore and freshman subjects. (See schedule for September, 1926, on page 2.) Moreover, a student may take as a make-up any mid-year or final examination regularly given in the course in which he is conditioned. No make-up examinations will be given in those senior subjects which are completed in the spring. One make-up examination will be given in senior subjects which are completed at mid-years.

A student who fails in the mid-year or final examination in a given course receives credit for only 60 per cent even if he obtains a higher grade in a make-up examination in that course.

If a student, for good cause, does not take the examination even at the close of a course, he may be permitted to take it any time thereafter when an examination in that subject is regularly scheduled; and, since that will be his first examination therein, he will receive full credit for whatever grade he obtains.

The receipt of a passing mark in a course precludes a student from another examination therein.

A fee of two dollars is charged for each make-up examination taken by a student. This sum must be paid on or before the date of the examination and no student will be admitted to any make-up examination until the fee has been paid in full. Students desiring to take make-up examinations should report to the School office to make necessary payments and to receive admission cards to the examinations.

In order to be permitted to take an examination in a course, the student must have qualified in attendance. (See attendance regulations.)

## TESTS

A system of tests is maintained whereby four tests are given regularly in each full-year course and two tests are given regularly in each half-year course. In each of the four tests in a full-year course a maximum of five points is obtainable toward the student's final grade or in the four tests combined a maximum aggregate of twenty points is obtainable toward the student's final grade. In each of the two tests in a half-year course a maximum of five points is obtainable toward the student's final grade or in both tests combined a maximum aggregate of ten points is obtainable toward the final grade. In each instance the remaining points are obtainable by way of the regular examinations given at the conclusion of the course. In the case of full-year courses a maximum credit of eight points will be obtainable on the final examination. In the case of half-year courses a maximum credit of ninety points will be obtainable on the final examination in each half-year course.

If a student does not take certain of the tests when they are regularly scheduled, he may be permitted to do so at a time thereafter when the corresponding test in the subject is given. If a make-up test is the first trial which a man has made, he will receive credit for whatever grade he obtains.

The receipt of three points in a test precludes the student from taking a corresponding test in that course. If the student received less than three points in a test he will be permitted to take the corresponding test in that subject when it is regularly scheduled, but will obtain credit for three points only, even though he obtains a higher grade.

## SPECIAL EXAMINATIONS OR TESTS

Under no conditions will special examinations or tests be given in a course. Students desiring to take examinations in subjects which they have failed must either take the regular final examinations or tests or in case of examinations, the regular make-up examinations in the subjects in which they desire to be re-examined.



## *School of Law*

### MARKS

For relation between attendance and marks, see pages 25 and 26.

The work of each student shall be graded upon examination, according to the following scale:

90-100 inclusive	A	(Superior work)
80-89        "	B	(Good work)
70-79        "	C	(Fair or average work)
60-69        "	D	(Lowest passing grade)
40-59        "	F	(Conditional Failure*)
0-39         "	FF	(Complete Failure**)

Grade reports are mailed or given to students from the office of the Dean or of the Divisional Director.

### PROMOTION

The following point† system has been adopted for the promotion of students:

(1) The minimum number of points† required for advancement from Law I to Law II shall be 200. Further than this no student shall be permitted to go ahead with sophomore studies who has more than

- (a) One Conditional Failure and one Complete Failure  
or
- (b) Two Conditional Failures.

(2) The minimum number of points† required for advancement from Law II to Law III shall be 540. Further than this no student shall be permitted to go ahead with junior studies who has more than

- (a) Two Conditional Failures and one Complete Failure,  
or
- (b) Three Conditional Failures.

† A Conditional Failure may be made up by passing the examination in the subject the next time it is given or at the time the condition examinations are held in September.

\* A Complete Failure may be made up only by repeating the course in its entirety and passing the examination therein.

One point equals one per cent of final grade in a course.

(3) The minimum number of points\* required for advancement from Law III to Law IV shall be 870 with the further provision that no student shall be permitted to proceed ahead with the studies of the senior year who has more than two Conditional Failures.

## REQUIREMENTS FOR THE DEGREE

In order to qualify for the degree of Bachelor of Laws, student must meet the following requirements:

Be at least twenty-one years of age at the time of receiving the degree.

Comply with the entrance requirements for admission as a regular student.

Make the required attendance upon lectures.

(For the relation between attendance and the degree requirements, see pages 25 and 26).

Make the required marks in all courses scheduled for the degree.

Secure the minimum number of points\* required for the LL.B. degree as follows:

(a) With no conditions in any Law School subjects—1300 points\*.

(b) With one Conditional Failure in the subjects of the last two years—1400 points\*.

Note: Candidates for graduation should file their applications together with their graduation fee in the Law School office not later than April 1 of the year in which they expect to receive their degree.

## HONORS

A student qualifies for cum laude distinction if he passes all of the courses scheduled in the entire four-year curriculum and secures an average of at least 85 per cent.

\*One point equals one per cent of final grade in a course.

## TUITION AND OTHER FEES

All bills for tuition and other fees are payable in advance. No student will be advanced in class standing until all the bills of the previous year have been paid; and no degrees will be conferred upon students who have not paid all their dues to the University. No student will be given honorable dismissal from the Law School unless he shall have paid all his Law School bills including the current tuition payment. During the time the Law School bills which are overdue remain unpaid, no student receives no credit either for attendance, tests, or examinations.

The Committee on Administration is mindful of the fact that many students would of necessity be denied an education required to meet tuition payments in full on the dates specified in the catalog. To aid these men, whom the University desires especially to serve, the Executive Council of the University has voted to extend to them deferred payment privileges. A small fee is charged for this service to cover, partially at least, the cost of administering deferred payment privileges. Such privileges are granted only to needy students when, in the judgment of the Committee on Administration and the Dean, such privileges are felt merited.

*Application Fee*—The application fee of \$5 must accompany the application for admission and is payable only once, on initial entrance to the School. This fee is not refundable under any circumstances.

*Tuition*—Effective September, 1926, for all entering students, the tuition fee will be \$125 a year, payable in advance as follows: \$35 at the opening of school in September and \$30 on each of the following dates: November 15th, January 17th and March 21st. These rates apply both to regular students and to special students taking the full schedule.

Students taking a limited number of courses not equivalent to a full year schedule are charged on the single-course basis of \$45 for a full course and \$25 for a half course. A full course is one running throughout the year; a half course is one running only through a half of the year.

## *Northeastern University*

The regular tuition charge for students already enrolled in the School will be on the basis of the 1925-1926 rates. The \$125 rates will apply to all students in the Springfield Division.

Special rates of tuition will not be granted to students who are reviewing work in the School.

All tuition fees include for men a limited membership in the Y. M. C. A. (Not including gymnasium and natatorium.)

*Other Law School Charges*—A condition examination fee of \$2 is charged for each examination taken by students who have either failed to take or have previously failed the corresponding examination. This fee is payable before the examination may be taken.

An advanced standing examination fee of \$2 is charged for each examination taken for advanced standing by students transferring from other law schools.

A deferred payment fee of \$2 is charged in each case where the tuition is not paid when due and a deferred payment agreement is granted. Deferred payment agreements will be granted only upon presentation of satisfactory evidence to show that the deferred payment privilege is warranted.

A University graduation fee of \$10 is payable by all members of the senior class on or before April 1st of the year in which they expect to graduate.

In Providence and Boston men duly enrolled in the School are allowed reduced rates in the case of the gymnasium and natatorium.

## WITHDRAWALS AND REFUNDS

Students who are forced to withdraw from the School are requested to notify the School office in writing to the effect that they are withdrawing and to give their reasons for doing so. This notification should be given promptly.

As the School assumes the obligation of carrying the student throughout the year when the student registers, and as the University provides the instruction and accommodations on a yearly basis, the Executive Council of the University has ruled that refunds can be granted only under the following conditions:

## *School of Law*

1. In cases where students are compelled to withdraw on account of personal illness. The application for refund must be accompanied by a satisfactory certificate from a physician.

2. In case a student is regularly employed during the day and is sent out of the city permanently by his employer or compelled to change his working hours so as to prevent his continuance in the School, a refund may be granted, provided the application is accompanied by a satisfactory statement from the firm.

Refunds are computed from the date on which the student leaves with the School his applications for withdrawal and refund and not from the date of last attendance.

A five-dollar registration charge is retained in each case. The amount to be refunded would be the balance of the unused tuition after making the deductions indicated. Fees are not refundable.

A student who at the time of withdrawal has not paid in full his current charges for tuition cannot be granted an honorable dismissal until he has met these charges together with the registration charge. Students not entitled to an honorable dismissal cannot be granted certificate or statements of credit for work already completed.

## DISCIPLINE

The Committee on Administration reserves to itself the right to dismiss from the School at any time or to strike off the list of candidates for the degree any student whom it may deem unworthy either on account of his neglect of study, his incapacity for the law, or for any grave defect of conduct or character.

## OUTLINE OF COURSES\*

### FIRST YEAR

#### TORTS

*(Sixty-two Hours)*

Definition of tort; theory of liability in tort; distinction between tort and breach of contract; defences to torts; apparent torts; assignability of right of action in tort; damage discharge of torts; disability; including responsibility of infant married women, insane persons, municipal corporations and charities in tort; assault and battery; false imprisonment; trespass to property; slander and libel; slander of title; enticement and seduction; loss of consortium; deceit; infringement of trade-marks; malicious prosecution; negligence.

Ames' and Smith's Cases on Torts.

#### CONTRACTS

*(Sixty-two Hours)*

Offer and acceptance; consideration; performance of, promise to perform non-contract obligation as consideration; moral obligation as consideration; antecedent act or agreement as consideration; parties to a contract, including alien, executors and administrators, guardians, infants, insane persons, intoxicated persons and married women; omitting agent corporations and partners on account of these subjects being given in other courses; contracts under seal, including their form, requisites thereof, delivery and the matter of consideration; rights of beneficiaries under a contract; rights of assignee of a contract; conditional and unconditional contracts; rescission of contracts; damages for breach of contract; illegality; duress; mistake; statute of frauds, quasi-contracts.

Keener's Cases on Contracts, second edition.

\*The order of courses, so far as the Divisions are concerned, may be changed from time to time as deemed necessary by the Administration.

## *School of Law*

### CRIMINAL LAW

*(Thirty-eight Hours)*

Sources of criminal law; the elements of crime; effect of consent, condonation, negligence of person injured, coercion, and necessity; criminal intent; effect of mistake of fact, infancy, insanity and intoxication; the criminal act; attempts; parties in crimes; assault and battery; mayhem; false imprisonment; abortion; rape; murder and manslaughter; larceny; embezzlement; obtaining property by cheats and false pretenses; receiving stolen property; burglary; arson; forgery; libel; perjury; conspiracy; criminal procedure in Massachusetts.

Mikell's Cases on Criminal Law.

### AGENCY

*(Thirty Hours)*

Capacity of the parties to the relation; creation of the relation; authority of an agent; manner of execution of authority; effect of relation as between principal and agent, between agent and third persons, and between principal and third persons; ratification; duration and termination of the relation.

Wambaugh's Cases on Agency.

### LEGAL ETHICS

*(Six Hours)*

The duty of the lawyer to the courts; the defence or prosecution of those accused of crime; adverse influences and conflicting interests; the duty of the lawyer to his client; negotiations with the opposite party; acquiring interest in litigation; the lawyer's fee; contingent fees; the duty of the lawyer to his fellow lawyers; the duty of the lawyer to the adverse party and witnesses; the conduct of the lawyer in court; advertising; the responsibility of the lawyer for litigation; the duty of the lawyer to society at large.

THE CASE METHOD OF INSTRUCTION

*(Ten Hours)*

The case method of law instruction, its origin and a comparison of it with other methods of instruction; the sources of our law, constitutions, common law and statutes; distinctions between law and equity; divisions of the law, civil, criminal and otherwise; adjective law and substantive law; the common law, its origin and underlying principles; the doctrine of *stare decisis*; the relative value of text-books, case-books, digests and the reports; how to read and abstract a case; differentiation between decision and dicta; imperative and persuasive authorities; outline of forms of action, pleadings and subsequent proceedings in the trial of a case; the commentaries.

“The Study of Cases,” Wambaugh.

“The Sources of the Law,” Gray.



## SECOND YEAR

### PERSONAL PROPERTY AND SALES

*(Sixty-six Hours)*

Distinction between real and personal property; rights of action based on possession or on ownership; possessory interests in chattels, including bailments, pledges and liens; acquisition of ownership in chattels, including adverse possession, accession, confusion, judgment and gifts; fixtures and emblements.

Sales and mortgages of personal property; subject matter of sales; when title passes; risk of loss; rights and remedies of seller and buyer in executed, executory and conditional contracts of sale; warranties of title and quality; seller's lien and stoppage *in transitu*, bills of lading and other documents of title; fraud; statute of frauds; factors and recording acts; actions and defenses.

Bigelow's Cases on Personal Property.

Woodward's Cases on Sales.

### EQUITY I

*(Sixty Hours)*

History, nature, and limits of the jurisdiction; the jury in equity; the maxims; assignments; equitable rights, including accident and mistake, fraud, notice, estoppel, conversion, adjustment of liabilities; equitable remedies, with particular attention to specific performance and injunctions; reformation and rescission, account, and other pecuniary remedies.

Ames' Cases in Equity, Vols. I and II.

### BILLS AND NOTES

*(Forty-four Hours)*

The provisions of the General Laws of Massachusetts, Chapter 107—Negotiable Instruments Law (in Massachusetts only). Formal requisites of negotiable and non-negotiable bills of exchange, checks and notes; obligations and rights of the various parties to such instruments, makers, acceptors, drawers,

drawees, payees, indorsers and indorsees; suits upon bills and notes; pleading and defenses, accommodation paper; bankers' and trade acceptances; letters of credit; guaranty and generally of the transfer, negotiation and extinguishment of bills and notes.

Colson's Hufcut on Negotiable Instruments, second edition.

## REAL PROPERTY AND ITS TRANSFER *INTER VIVOS* (*Sixty Hours*)

The feudal system; tenure in land; estates in land; including their creation and methods of conveyance under the feudal system; reversions, remainders and other future estates; joint ownership; disseisin and the remedies therefor; uses and trusts; air; right to lateral support; water; profits; easements; licenses; covenants running with the land; rents; waste; public rights in waters and highways.

Acquisition of real property *inter vivos*. Accretion; adverse possession; prescription; form of conveyances at common law deeds,—description of property granted, boundaries, estates created, incorporeal hereditaments, covenants for title, estoppel by deed, execution, delivery; dedication; examination of titles.

Bigelow's Cases on Rights in Land.

Warren's Cases on Conveyances.

## THIRD YEAR

### TRUSTS

*(Fifty-four Hours)*

Nature and requisites of a trust; a trust distinguished from a debt; constructive and resulting trusts, charitable trusts, etc.; language necessary to create a trust; consideration; the Statutes of Frauds and Wills; subject matter of a trust; the *cestui que* trust; the trustee; nature of the *cestui que* trust's interest; transfer of trust property, rightful and wrongful; extinguishment of a trust; duties of the trustee.

Scott's Cases on Trusts.

### PROPERTY III (First Part)

*(Thirty-three Hours)*

Future and conditional interests in property.

Estates on condition, rights of entry for condition broken, license and waiver of breach, possibilities of reverter, reversions, vested and contingent remainders, future uses, executory devises and bequests, failure of executory devises, construction of limitations, cross-limitations, vesting of legacies, gifts on failure of issue, ascertainment of classes, powers, rule against perpetuities, restraints on alienation, illegal and impossible conditions.

Kale's Cases on Future Interests.

### PROPERTY III (Second Part)

*(Thirty-three Hours)*

Mortgages: The characteristic mortgage doctrines; the long and statutory short forms; equitable mortgages; construction of loan mortgages; deficiency judgments; effect of passage of time on mortgages; taxes; insurance; assignment by mortgagee and mortgagor; merge; partial release and discharge; marshaling; special emphasis on the practise of foreclosure; redemption.

## *Northeastern University*

Landlord and tenant: Leases distinguished from licenses; special emphasis on the drafting of leases with relation to particular types of premises and particular needs of parties; creation and termination of leases for years, at will and at sufferance; special emphasis on liability in tort of both landlord and tenant for defects in the premises.

Joint ownership: Distinction between kinds of joint ownership; creation of the tenancy; tenancy in common; joint tenancy; tenancy by the entirety.

### WILLS

*(Forty-two Hours)*

Escheat; descent; statutory rules; wills—kinds, alternatives, advantages and scope of; execution; sound mind; fraud and undue influence; mistake; form; attestation; incorporation by reference; revocation by change in circumstance; by subsequent instrument; by physical act; dependent relative revocation; revival; republication; lapsed, void and adeemed gifts; conflict of laws; construction; probate and administration; jurisdiction; procedure; powers of representative; payment of debts; payments of legacies and distribution; statutory rights and allowances; practice.

Costigan's Cases on Wills.

### BUSINESS ASSOCIATIONS

*(Sixty-six Hours)*

Nature and characteristics of three principal types of business association. Partnership: Creation of partnership; rights and duties of partners among themselves; power of partners to bind firm; individual liability of partners; dissolution. Joint stock association: How created; how different from a partnership; rights and duties of members among themselves; powers of members and managers to bind association; associate and individual liability; dissolution. Corporation: How created; how different from joint stock association;

orporate personality; capital stock; rights and duties of members; powers of corporation and its officers; how a corporation acts; corporate and individual liability; dissolution.

Canfield & Wormser—Cases on Private Corporations.

Gilmore's Cases on Partnership.

## FOURTH YEAR

### EVIDENCE

*(Fifty-seven Hours)*

Judicial notice; judge and jury, or law and fact; burden of proof presumptions; admissions; confessions; principles of exclusion; relevancy; character evidence; hearsay evidence and exceptions thereto, including declarations as to matters of pedigree, matters of public interest, public records, declarations in regular course of business, account-books, declarations against interest, *res gestae*, dying declarations, declarations made under oath, declarations showing physical or mental conditions; opinion evidence; best evidence; writings as evidence; examination of witnesses.

Wigmore's Cases on Evidence.

### BANKRUPTCY

*(Thirty-six Hours)*

History of bankruptcy legislation, state and national extent and operation of state insolvency laws; who may become a bankrupt; who may be petitioning creditors; acts of bankruptcy, including fraudulent conveyances, preferences and assignments for the benefit of creditors; what property passes to the trustee; dissolution of liens; what claims are probable against the bankrupt's estate; duties and powers of the trustee; duties of the bankrupt; discharge from bankruptcy; compositions in the bankruptcy court; bankruptcy procedure.

Williston's Cases on Bankruptcy.

### CONSTITUTIONAL LAW

*(Thirty-six Hours)*

Written and unwritten constitutions; history and sources of written constitutions in the United States, state and national, establishing and amending constitutions; distribution of powers between the national and state governments; distribu-

## *School of Law*

on of powers among the three departments; the judicial department; nature of judicial power; jurisdiction of the federal government, criminal and civil; express, implied, resulting and inherent powers; functions of administrative officers; citizenship; civil and political rights; the police power; the right of eminent domain; taxation; impairment of contracts, *ex post facto* and retrospective legislation generally; regulation of commerce.

Hall's Cases on Constitutional Law.

## SURETYSHIP

*(Twenty-four Hours)*

Comprising the rights and obligations subsisting among the three parties involved in a suretyship transaction, namely, principal obligor, surety and creditor.

Scott's Cases on Suretyship.

## COMMON LAW PLEADING

*(Twenty-four Hours)*

Procedure from the original writ to appeal and review of judgment; how a right may be enforced and a remedy obtained in the courts; venue of actions; forms of actions, local and transitory, real, personal and mixed; original and judicial writs; pleadings, their necessity, uses, forms and rules by which they are governed; the effect of pleadings in conduct and results of the trial; protection of rights of the parties before, during and after trial, and before and after judgment; revision of proceeding, exceptions, appeal and review.

Keen's Cases on Common Law Pleading.

## MASSACHUSETTS PRACTICE AND PLEADING, AT LAW AND IN EQUITY

*(Thirty-six Hours)*

Courts in Massachusetts and jurisdiction of each; venue of actions; writs and service of same; arrest on *mesne* process; attachment of property; trustee process; entry of actions;

appearances; non-suit and default; the Practice Act; amendments; set-off, recoupment and cross actions; tender and offer of judgment; interrogatories; depositions; masters, auditors and assessors; trial; motions for new trial; motions in arrest of judgment; appeals; exceptions; report and reservation of judgment; execution; equity pleading and practice.

Tucker's Massachusetts Practice.

## BAR EXAMINATION REVIEW

*(One Hundred Hours)*

In the senior year a review of the entire four years' course in preparation for the Massachusetts bar examination is conducted. This is open to those members of the senior class who have been regular attendants at the School for at least two years. This review covers the more important points in all of the courses in the four years' curriculum. The purpose of the review is not merely better to prepare the student for the bar examination; its object is also to bring before the student's mind the close inter-relation of the various branches of the law and to emphasize its unity. Special emphasis is laid upon the more important cases in each subject. Sufficient time is also devoted to the review of some of the questions given upon past bar examinations.



## ELECTIVE COURSES

### CARRIERS

*(Fifteen Hours)*

Bailments; who are common carriers; duty to receive and transport; loss and damage; limitations of liability; delivery; delay; bills of lading; actions; rates; liens, etc. Control and regulation; carriers of passengers; fares and tickets; ejection; personal injuries; baggage; etc.

Beale's Cases in Carriers.

### DOMESTIC RELATIONS

*(Fifteen Hours)*

Husband and wife; marriage and its legal consequences; personal relations and property rights of husband and wife; relations as to third persons; torts; dissolution or annulment of marriage; foreign divorces and conflict of laws; parent and child; guardian and ward.

Smith's Cases on Persons.

### INSURANCE

*(Fifteen Hours)*

Special emphasis on the law of marine, fire and life insurance; insurable interest, concealment; representation and warranty; causes of invalidity; the peril insured against; amounts of recovery; the premium; conditions of the policy; waiver and appeal; the rights of assignees and beneficiaries; the doctrine of subrogation; the standard policy. Special lectures are devoted to accident and to guarantee and other kindred insurances.

Wambaugh's Cases on Insurance.

### SECTION WORK—QUIZZES

In addition to the formal lectures the students meet regularly throughout the year for a systematic review of the

## *Northeastern University*

material covered by the regular lectures. In Boston the Freshmen meet twice each week during the first semester for half-hour quizzes. In Boston and in the Divisions at least six hours is devoted to intensive review work during the latter part of each course. These reviews are additional to the regular lectures. The quizzes are conducted by experienced instructors.

### MOOT COURT

A moot course is conducted in connection with the course Practice and Pleading. In this court actions are commenced, tried and prosecuted to a final adjudication. Students are designated to act in the capacity of attorneys, clerks and parties. In this way the student is by example familiarized with the conduct of litigation.

This course also offers adequate opportunity for practical instruction in many phases of trial evidence as well as in the ethical duties of the lawyer in court.

### SPECIAL LECTURES

Special lectures are offered from time to time on subjects not included in the regular program of instruction. These lectures are open to members of the Law School without additional expense.

## GENERAL INFORMATION

### HISTORICAL SKETCH

The incorporation of Northeastern University of the Boston Young Men's Christian Association in March, 1916, marked the culmination of a notable development. The University is the realization of an ideal carefully worked out and persistently followed for many years. One of the first lines of endeavor of the Boston Young Men's Christian Association, after its establishment in 1851, was the opening of evening classes for young men. It was not, however, until 1896, that the actual foundations for the University were laid. The larger number of courses offered required a more comprehensive organization. Gradually the courses were grouped under separate schools and additional courses were offered to complete the curriculum of each school.

The School of Law, established in 1898, was incorporated in 1904, with degree granting power. Founded in 1907, the School of Commerce and Finance was authorized in 1911 to confer the degrees of Bachelor and Master of Commercial Science. The School of Engineering was opened in 1909 and given power in 1920 to confer the following degrees: Bachelor of Civil Engineering, Bachelor of Mechanical Engineering, Bachelor of Electrical Engineering, and Bachelor of Chemical Engineering. The School of Business Administration was opened in September, 1922, and has the right to grant the degree of Bachelor of Business Administration. In addition the Evening Polytechnic School, the Huntington School for Boys, the Northeastern Preparatory School, the Automotive School, and the Department of University Extension are conducted under the administration of the University. In March, 1923, the University was granted general degree granting power by the Massachusetts Legislature. Divisions of the University offering evening instruction have been established at Worcester, Springfield and Providence.

## *Northeastern University*

### BOOKS

Case-books are required in the courses. These books may be purchased by the student in most cases from the University book store, in other cases directly from the publishers at the Boston offices. If convenient to the student, the books of the Law Library may be used in the building. It is recommended and strongly urged that all students should own their own case-books because of the very evident advantages to the student in the preparation of his courses and the advantageous use of leisure hours at home.

### LAW LIBRARIES

#### *Boston*

The Law Library, located in the Y. M. C. A. Building at Boston, is large, well-equipped and comfortably furnished. In it may be found case and text-books on all of the subjects taught in the School, as well as on related subjects, the National Reporter System, the State Reports of Massachusetts and New York, the English Reports, United States Supreme Court Reports, Corpus Juris Cyc, encyclopedias of law, etc. Additions of standard law books of value to the students in their law studies are being made regularly to the Library. A library is so essential to the success of a law school that a great deal of attention to it is necessary in order to insure that it is well equipped and efficiently administered. For this reason the Northeastern University officials are particularly alert to meet the needs of the situation and progressively build up an excellent and thoroughly practical Law School Library which may serve as a working laboratory for the students.

The library is open daily from 9 a.m. to 10 p.m.

#### *Worcester*

The Worcester Division is rapidly building up an excellent Law Library. A special library room has been provided. New books are being added each year so that the students may

## *School of Law*

have the best material at their disposal. A full set of Massachusetts Reports, Acts and Resolves, Digests, Case-Books, Text-Books and other valuable material is available. The library of the Worcester County Court House is also available to students.

### *Springfield*

Springfield is fortunate in having access to the splendidly equipped law library of the Hampden County Court House. It has, however, for the immediate convenience of its students a library of several hundred volumes within its own building. Full sets of Massachusetts Reports, Acts and Resolves, Digests, Corpus Juris and Cyclopedia of Law and Procedure, and Case-Books are available. Other valuable material is also on its shelves through gift or loan of Faculty and friends. This includes material not only on American law but many sets of old English Reports.

### *Providence*

A well selected Law Library is available for all Providence students. New volumes are being added regularly. A full set of the Rhode Island Reports, Standard Case-books, Statute books and other valuable reference material has been placed in a specially fitted room to which students have easy access during the day or evening.

By special arrangement the Supreme Court Law Library is open at least one evening each week for the use of students.

## BUILDINGS

The School of Law is housed in the Y. M. C. A. Buildings in Boston, Worcester, Springfield and Providence. Each of these buildings is of modern construction and offers excellent and varied facilities for the use of the students.

## CLASSROOMS

Adequate, well-lighted, heated and ventilated classrooms are provided in Boston and in each Division.

## *Northeastern University*

### DORMITORIES

In each Y. M. C. A. Building are dormitory facilities where students limited to the number of rooms available, may secure comfortable and well furnished rooms at a minimum price. There is a congenial atmosphere of fellowship and of social life in the dormitories, and opportunities are available for forming the best type of friendships.

### PHYSICAL CULTURE

Each building has unexcelled facilities in the nature of gymnasiums, swimming pools, and bowling alleys. Opportunities are provided for practically every physical activity. School of Law men are urged to avail themselves of the opportunities for physical training. It is especially necessary that men who are employed during the day and studying in the evening take some kind of adequate exercise in order that they may do their most effective school work.

### REDUCED GYMNASIUM RATES TO STUDENTS

In order to insure the use of the gymnasium and to bring it within the means of all students, reduced rates are granted to students.

### OTHER RECREATIVE OPPORTUNITIES

Other recreative opportunities of a widely varied nature are offered in the form of billiard rooms, libraries, game rooms, and other facilities. In fact the Y. M. C. A.'s in which the School of Law is located are equipped for almost every type of clean, virile, and wholesome activity.

### SOCIAL LIFE OF THE SCHOOL

The constant association with other men of outstanding ability from nearly every type of human activity is of incalculable value to the student of law. In addition to the usual classroom contacts students are also brought into contact

## *School of Law*

with one another through special lectures, class dinners, and other school functions which are highly profitable and pleasurable.

### RELIGIOUS ACTIVITIES

Northeastern University is conducted by the Young Men's Christian Association and, though non-sectarian, is thoroughly Christian in character. Students are cordially welcomed and urged to participate in all the activities of the Y. M. C. A. It is hoped that they will feel free to do so to the largest possible extent. In connection with the various departments of each Association an ample social and religious program is provided, so that all men should be able to find that type of activity in which they are most interested. However, a student should not hesitate about entering the School because of religious faith, no attempt being made to influence one to participate in any activities which are contrary to the tenets of his particular religion.

### VOCATIONAL AND EDUCATIONAL GUIDANCE

The School aims to aid students to adjust themselves to their Law School work, to develop proper study habits, to correlate properly their law study with their day-time employment; and to choose, prepare for and progress in the particular field or profession for which their vocational experience and legal education best fit them.

### NORTHEASTERN UNIVERSITY ALUMNI ASSOCIATION OF BOSTON, MASSACHUSETTS

The alumni of the School of Law in Boston are actively organized and are contributing largely of their time and support to the welfare of the University.

The officers of the Association are:

*President*, ASA S. ALLEN

*Vice-President*, WYCLIFFE C. MARSHALL

*Treasurer*, GARRET F. BURNS

*Secretary*, EDWARD V. MCCARTHY

*Northeastern University*

NORTHEASTERN UNIVERSITY ALUMNI  
ASSOCIATION OF PROVIDENCE, R. I.

Alumni of the Schools of Law and Commerce and Finance of the Providence Division have a well organized and active Alumni Association which meets regularly and is supporting the University in all School matters.

The officers of the Association are:

*President*, E. WILLIAM LANE, C & F '23

*Vice-President*, JOSEPH V. BRODERICK, Law '24

*Secretary-Treasurer*, CARL W. CHRISTIANSEN, C & F '23

NORTHEASTERN UNIVERSITY ALUMNI  
ASSOCIATION OF SPRINGFIELD, MASS.

Open to Northeastern University alumni of all schools.

*President*, CORNELIUS J. CREAN '25

*Vice-President*, MAYNARD O. SAUNDERS, '24

*Vice-president*, BENJAMIN D. NOVAK, '23

*Vice-President*, HERBERT S. TERRILL, '25

*Secretary-Treasurer*, BASIL J. HUNTER, '25



*School of Law*  
STUDENT BODY  
BOSTON

CLASS OF 1926

Azarus A. Aaronson	Lawrence G. Corrigan
Chelsea	Hyde Park
Julius Adelberg	James A. Cresswell
Dorchester	<i>Boston University</i>
Louis Albert	Boston
<i>Boston University</i>	Paul E. Crocker
Mattapan	<i>B.C.S., Northeastern University</i>
Arleton N. Baker	Dorchester
Dorchester	Jacob Cushner
Louis P. Barcelo	<i>Boston University</i>
South Weymouth	Revere
Edward C. Barker	John J. Darcy
Weymouth	Lawrence
George D. Barry	Bertram H. Davis
Everett	Roxbury
John A. Barry	George R. Day
<i>B.C.S., Northeastern University</i>	Brookline
East Boston	Frank J. DeMille
Arthur C. Bassett	Medford
<i>Columbia University</i>	Joseph Dengeleski
Taunton	Cambridge
Louis Bennett	Edmund C. Devlin
Roxbury	Boston
La A. Berman	Eugene S. Dinan
Malden	Somerville
Cameron Biewend	Winifred B. Doherty
Roxbury	Malden
John Block	James V. Donahue
Roxbury	Jamaica Plain
Adore Bloom	Mary F. Downes
Dorchester	South Boston
William J. Bond	Herman Drews
<i>A.B., Boston College</i>	Dorchester
Jamaica Plain	Ralph W. Dudley
Arthur G. Boyle	Hyde Park
Dorchester	Israel Eigner
Phraim A. Brest	<i>A.B., Dartmouth College</i>
Chelsea	<i>M.C.S., Amos Tuck School of Adminis-</i>
Patrick J. Burke	<i>tration</i>
<i>Boston University</i>	Lynn
Somerville	William P. Evans
Arnold W. Cairns	Salem
<i>Gordon Bible College</i>	Israel L. Fine
Quincy	Malden
Francis D. Carmody	Frank Fiorentino
Jamaica Plain	Boston
John N. Chaisson	William T. Fiorillo
Dorchester	Medford
Frank E. Cheney	Oscar F. Frisk
Cambridge	Quincy
Arthur J. Chicofsky	Edward Galiano
Dorchester	<i>Valparaiso University</i>
Anthony J. Christoforo	Dorchester
Revere	Rubin E. Garber
John Christoforo, Jr.	Boston
Revere	Charles V. Gatto
Charles Cohen	Cambridge
Dorchester	John J. Gavin
Harry Cohen	Jamaica Plain
Chelsea	Joseph E. Geary
Amuel H. Cohen	Lowell
<i>Tufts College</i>	Lawrence H. Gerritson
Chelsea	<i>Boston University</i>
James B. Connolly	Melrose
Revere	Arthur F. Gobron
James F. Conolly	Cambridge
Peabody	Louis C. Gobron
	West Somerville

## Northeastern University

- Abraham M. Golden  
*Bentley School of Accounting and Finance*  
 Roxbury  
 Benjamin Goldstein  
 Boston  
 Paul A. Goldstein  
 Chelsea  
 Panayiotis E. Gouzoules  
 Lynn  
 Norman W. Haines  
*A.B., Bowdoin College*  
 Greenland, N. H.  
 Basilios D. Hamouzakos  
 Boston  
 Stephen M. Hannon  
 Boston  
 James F. Hardy  
 Allston  
 Carrie A. Hartley  
 Allston  
 Thomas B. Hassett  
*Ph.G., Mass. College of Pharmacy*  
 Fitchburg  
 J. Russell Havey  
 Dorchester  
 Grace M. Henry  
 Dorchester  
 George W. Herman, Jr.  
 Orient Heights  
 John P. Higgins  
*B.S., Harvard University*  
 Boston  
 Arthur H. Holmberg  
*B.C.S., Northeastern University*  
 Newtonville  
 Francis X. Hurley  
 Somerville  
 Bessie G. Kaufman  
 Brookline  
 T. Lewis H. Kennedy  
*A.B., Harvard University*  
*A.M., Harvard University*  
 Hingham  
 William E. Killilea  
 East Boston  
 Francis P. Kirk  
*Bentley School of Accounting and Finance*  
 East Boston  
 David Kopel  
 Roxbury  
 Samuel Kostick  
*Mass. Institute of Technology*  
 Roxbury  
 Frederiek W. Kurth  
*A.B., Harvard University*  
 Roxbury  
 Thomas F. Lalor  
 Mattapan  
 Raphael I. Landau  
 Chelsea  
 Joseph L. Lawler  
 Lowell  
 Willis W. LeFavour  
 Pawtucket, R. I.  
 Simon I. Levine  
*Tufts College*  
 Boston  
 Joseph A. Logan  
*Bentley School of Accounting and Finance*  
 Hyde Park  
 Vincent M. McCartin  
*A.B., Holy Cross College*  
 Lowell  
 Frances L. McCloskey  
 Brookline  
 Margaret McGraw  
 Jamaica Plain  
 Francis E. McIsaac  
*Boston University*  
 Dorchester  
 Charles H. McMahon  
 Roxbury  
 Harry V. Madden  
 Winchester  
 Helen U. Mea  
*Boston Normal School*  
 Dorchester  
 Edward F. Messinger  
 Boston  
 Daniel T. Mooers  
 Roxbury  
 John W. Moore  
 Boston  
 Marion B. Morehead  
 Melrose  
 Albert E. Morris  
 Everett  
 Maurice J. Moscovich  
 Brookline  
 Robert J. Muldoon  
*Mass. Institute of Technology*  
 Somerville  
 Joseph J. Mulhern  
*Bentley School of Accounting and Finance*  
 Dorchester  
 John A. Murphy  
 Salem  
 Abraham Naterman  
 Roxbury  
 Herbert L. Neitlich  
 Roxbury  
 George H. Norton  
 Somerville  
 Robert L. O'Brien  
 Roslindale  
 John H. O'Hearn  
 Cambridge  
 Bernard O'Neil  
*B.C.S., Northeastern University*  
 South Boston  
 James H. Orr  
*A.B., Harvard University*  
 Brookline  
 C. Linwood Parker  
 Dorchester  
 Ernest Pascucci  
 Boston  
 Henry E. Patnaude  
 Boston  
 Albert B. Peterson  
 Jamaica Plain  
 Andrew F. Pettingell  
*A.B., Harvard University*  
 Cambridge  
 Charles Presser  
 Roxbury  
 Frederiek L. Pyne  
 Lowell  
 Philip Richenbourg  
 Boston  
 Michael Richman  
*Boston University*  
 Cambridge  
 Calvin Robinson  
 Lowell  
 William A. Rosenberg  
*Northeastern University*  
 Roxbury  
 David Sava  
 Roxbury

## School of Law

linton J. Scollard  
     Braintree  
 amuel E. Seegel  
     Roxbury  
 rederick J. Shea  
     *A.B., Boston College*  
     Roxbury  
 red H. Smyth  
     Brookline  
 rank J. Spofford  
     Haverhill  
 lorris D. Stein  
     Salem  
 lbert R. Stokes  
     Brookline  
 arrie A. Storlazzi  
     Malden  
 rthur F. Sullivan  
     Boston  
 imes P. Sullivan  
     *A.B., Boston College*  
     Boston  
 ohn A. Sullivan  
     Winchester  
 ohn H. Sullivan  
     Malden

Elmo B. Taylor  
     *A.B., Harvard University*  
     Dedham  
 Herschel C. Thompson  
     Boston  
 Nathan N. Thorner  
     Dorchester  
 Stephen J. Walsh  
     Boston  
 Ralph W. Watson  
     *B.C.S., Northeastern University*  
     Medford  
 Philip P. Weiss  
     Boston  
 Walter J. Whelan  
     Cambridge  
 Frederick B. Willis  
     *Boston University*  
     Saugus  
 Harold E. Wilson  
     Newtonville  
 Ezekiel Wolf  
     *A.B., Harvard College*  
     *S.B., in E.E., Harvard University*  
     Dorchester  
 Edward E. Worcester  
     Waltham

### CLASS OF 1927

eth H. Alden  
     Brockton  
 ight M. Alden  
     *A.B., Bowdoin College*  
     Dorchester  
 amuel Alexander  
     *B.C.S., Northeastern University*  
     Dorchester  
 rank W. Allen  
     East Boston  
 Maurice G. Alperin  
     Roxbury  
 ertram E. Ames  
     *B.S. in C.E., University of Maine*  
     *C.E., University of Maine*  
     Swampscott  
 adore Appell  
     Revere  
 Marie L. Azum  
     Boston  
 Larry W. Bacon  
     Malden  
 lugo S. Bagnulo  
     Medford  
 eter E. Baril  
     *Montreal Normal School*  
     Roxbury  
 arl F. Bauer  
     Boston  
 eon C. Bearce  
     Springfield, Maine  
 arl O. Beloff  
     East Lynn  
 larence E. Biathrow  
     Arlington  
 David W. Bishop  
     Fall River  
 eorge F. Boltz  
     Roxbury  
 Margaret F. Boyle  
     Boston  
 Leo Brady  
     Swampscott

Edward C. Brooks  
     Ipswich  
 Albert Brown  
     *Boston University*  
     *Bentley School of Accounting and Finance*  
     Saugus  
 Francis J. Burns  
     Charlestown  
 Martin J. Cain  
     Medford  
 Joseph S. Calese  
     Somerville  
 Donald M. Came  
     Brookline  
 Atlante Campagna  
     Somerville  
 John H. Casey  
     *Bentley School of Accounting and Finance*  
     South Boston  
 John J. Casey  
     Brighton  
 Constantino F. Ciampa  
     *Bach. of Ed., Normal School, Italy*  
     Dorchester  
 Herman B. Cohen  
     *B.B.A., Boston University*  
     Roxbury  
 Julia S. Cohen  
     Mattapan  
 Louis Cohen  
     Lynn  
 Mazie L. Conley  
     Roslindale  
 Maxwell E. Copen  
     Chelsea  
 James G. Cronin  
     *A.B., Harvard University*  
     Boston  
 Patrick J. Cullen  
     Brighton  
 John E. Curran  
     *Mass. College of Pharmacy*  
     Dorchester

# Northeastern University

- William H. Currier  
Lawrence
- Alfred D'Alessandro  
*B.C.S., Northeastern University*  
Somerville
- Francis A. Daly  
Boston
- Richard H. Daly  
Taunton
- Harry S. Dane  
*Northeastern University*  
Brookline
- John B. Davidson  
Cambridge
- Max Day  
Chelsea
- Marie L. Delaney  
Roslindale
- James A. Delay  
*A.B., Boston College*  
Charlestown
- Vartan Derad  
*Boston University*  
Boston
- Joseph H. Doane  
Boston
- Antonio E. F. Donadio  
*B.B.A., Boston University*  
Dorchester
- William D. H. Donaghy  
*A.B., Harvard University*  
*Harvard Law School*  
Dorchester
- Richard C. Donnelly  
Taunton
- Louis F. Eley  
Newtonville
- Ethel Elliott  
Roxbury
- Lester H. Elliott  
Boston
- Wilfred S. Ells  
Somerville
- Ray F. Emerton  
Allston
- Ida Fendel  
Revere
- James F. Fitzgerald  
Cambridge
- Samuel B. Flashman  
Malden
- Bernard P. Fox  
*A.B., Boston College*  
West Roxbury
- George Fox  
Dorchester
- Charles O. Frohnert  
*Harvard University*  
Somerville
- Horace S. Gardner  
Boston
- Wilfred J. Gaudreau  
Dorchester
- Andrew G. Geishecker  
Dedham
- Benjamin Ginsberg  
*Harvard University*  
Roxbury
- Louis L. Glazer  
Chelsea
- William H. Gobron  
Cambridge
- Arthur I. Goldberg  
Dorchester
- Morris Goldberg  
*Yale University*  
Taunton
- Maurine Goldshine  
*Bentley School of Accounting and Finance*  
Everett
- Maurice Goldstein  
Malden
- Irene R. Golnick  
Boston
- Meyer J. Gordon  
Brookline
- David Gorfinkle  
Dorchester
- Frederick W. Graham  
Swampscott
- Harry A. Greene  
Cambridge
- Max Gross  
Winthrop
- Anthony Gugliucciello  
East Boston
- Israel Haight  
Chelsea
- Gladys E. Hamilton  
Boston
- William F. Harnedy  
Brookline
- James T. Hartin, Jr.  
*Bentley School of Accounting and Finance*  
Dorchester
- Wendell P. Harvey  
Dorchester
- Harold D. Hayden  
*Northeastern University*  
Milton
- Edward L. Hefron  
Somerville
- Walter F. Henneberry  
*Boston University*  
East Boston
- Thomas J. Hennessey  
Boston
- Benjamin Herwitz  
*Boston University*  
Brighton
- Roscoe B. Holman  
Winthrop
- Michael J. Hopkins  
Cambridge
- Louis J. Huddish  
Revere
- Daniel Ingve  
Chelsea
- Antonino Iovino  
*Bentley School of Accounting and Finance*  
South Boston
- Gilbert I. Isgur  
*Boston University*  
Roxbury
- Peter A. Jennings  
Somerville
- Abraham Kagan  
Chelsea
- Frances Kanerman  
Roxbury
- Irving S. Kaplan  
Revere
- John P. Keane  
Boston
- Edward J. Keelan, Jr.  
Roslindale
- Frederick W. Keeley  
Beverly
- Walter W. Keiler  
*B.C.S., Northeastern University*  
Boston
- William J. Kelleher  
*A.B., Boston College*  
Cambridge

## School of Law

- George W. Kierce  
*Canisius College*  
*Boston University*  
 Lowell
- William J. Kirby  
*A.B., Boston College*  
*M.B.A., Harvard University*  
 Jamaica Plain
- John J. Kirwin  
 Roxbury
- Israel Kneller  
 Dorchester
- Mollie M. Koltz  
 Roxbury
- William Kopans  
 Roxbury
- Edith E. Lakin  
 Boston
- Emma J. Lang  
*B.B.A., Boston University*  
 Dorchester
- Harold J. Lawlor  
*Boston University*  
 Everett
- Charles Lebowich  
 Roxbury
- Benjamin B. Levenson  
 Roxbury
- Morris Lichter  
 Chelsea
- Erisis G. Lucas  
 Boston
- George Luftman  
 Atlantic
- Henry C. Lynch  
*A.B., Harvard University*  
 Cambridge
- Edmund F. McAuliffe  
 Boston
- Bertha A. McCarthy  
 Hudson
- Walter J. McCorkle  
*A.B., Park College, Parkville, Mo.*  
*M.B.A., Harvard University*  
 Boston
- Henry McDonnell  
 Boston
- Raymond F. McFee  
*Tufts College*  
 Roslindale
- William McLaughlin  
*Boston College*  
*Fordham University*  
 Cambridge
- Mary F. McManus  
 Dorchester
- Edward F. McNamara  
 Brookline
- William E. MacNeil  
 Brookline
- Joseph N. Madden  
*B.B.A., Boston University*  
 Salem
- Earl H. Magison  
 Bradford
- John A. Mahony  
*Boston College*  
 Roxbury
- George O. Q. Mansfield  
 Taunton
- May D. Marsh  
 East Boston
- Emily I. Mather  
 Malden
- John A. Matthews  
 Medford
- Clyde R. Maylor  
 Everett
- Edward Meltz  
 Everett
- Cornelius F. Merrigan  
*A.B., Boston College*  
 Brookline
- Raymond E. Merrill  
*A.B., Bowdoin College*  
 Arlington Heights
- David C. Milne  
*B.C.E., Northeastern University*  
 Roxbury
- John F. Mooney  
 Newton
- Raymond F. Mooney  
 Malden
- Benjamin J. P. Morrison  
*B.C.S., Northeastern University*  
 Everett
- William T. Murphy  
 Dorchester
- Sophie W. Myerson  
 Roxbury
- Paul R. Naeve  
 Roxbury
- George L. Newman  
 Boston
- Arthur H. Noble  
 East Boston
- Thomas F. O'Brien  
*Bentley School of Accounting and Finance*  
 Melrose
- Arthur H. O'Connell  
 Malden
- James L. O'Connor  
 Medfield
- Thomas A. O'Donnell  
*Boston College*  
 Somerville
- Paul M. O'Dowd  
 Lowell
- John T. O'Hea  
 Roxbury
- Albert M. Pacifici  
 Somerville
- George E. Page  
 Medford
- Howard S. Patterson  
*Northeastern University*  
 Milton
- Kester J. Peers  
 Boston
- Martin J. Pendergast  
 Lowell
- Barney H. Perlmuter  
 Dorchester
- Charles A. Phillips  
 Somerville
- Daniel Polit  
 Dorchester
- Richard J. Prout  
 West Roxbury
- Philip A. Putnam  
 Cambridge
- Finian K. Quinn  
 Chelmsford
- Joseph P. Quinn  
 Chelmsford
- George L. Rabinowitz  
 Brookline
- Celia D. Raphael  
 Roxbury
- Stanley Rawstron  
 Boston

# Northeastern University

- |  |  |
|--|--|
| Walter A. Redding                                  | David Shulman                          |
| Winchester   | <i>B.B.A., Boston University</i>       |
| William W. Rich                                    | Roxbury                                |
| East Boston  | Isaac Shulman                          |
| Rudolph Robinson                                   | Dorchester                             |
| Boston   | Max Singer                             |
| Maurice Rogovin                                    | Chelsea                                |
| Malden   | Maurice D. Sloyin                      |
| Francis J. Roland                                  | <i>Boston University</i>               |
| <i>A.B., Boston College</i>                        | Mattapan                               |
| <i>A.M., Boston College</i>                        | Samuel Smolensky                       |
| Roxbury  | Brockton                               |
| Mitchell Rosenfield                                | Daniel J. Sullivan                     |
| <i>B.C.S., Northeastern University</i>             | Medford                                |
| Chelsea  | George F. Sullivan                     |
| Robert G. Royster                                  | Boston                                 |
| Wellesley  | John F. Sullivan, Jr.                  |
| Arthur Z. Rubin                                    | <i>A.B., Harvard University</i>        |
| Springfield  | Dorchester                             |
| Rose Rubin   | John F. Sullivan                       |
| Roxbury  | <i>B.C.S., Northeastern University</i> |
| Fred L. Rufer                                      | Dorchester                             |
| Somerville   | Joseph A. Sullivan                     |
| Thomas P. Salmon, Jr.                              | Boston                                 |
| Woburn   | Savele Syrjala                         |
| Vyvian E. Sanguinetti                              | Brighton                               |
| Melrose  | Benjamin Tabachnick                    |
| Albert E. Saunders                                 | Chelsea                                |
| <i>B.C.S., Northeastern University</i>             | Mae Thorlby                            |
| Somerville   | Lawrence                               |
| C. Whitman Sawyer, Jr.                             | Robert W. Tucker                       |
| <i>Tufts College</i>                               | <i>Harvard University</i>              |
| Brookline  | Dorchester                             |
| Edison F. Sawyer                                   | Alice R. Verda                         |
| East Boston  | Boston                                 |
| Michael Scammacca                                  | Franklin G. Vradenburgh                |
| Boston   | Medford Hillside                       |
| Ralph H. Schein                                    | Charles B. Waddell, Jr.                |
| <i>Harvard University</i>                          | <i>Brown University</i>                |
| Chelsea  | Boston                                 |
| Sumner Schein                                      | Leslie O. Waite                        |
| <i>B.S. in C.E., Mass. Institute of Technology</i> | <i>University of Michigan</i>          |
| Chelsea  | Boston                                 |
| Emanuel B. Schwartz                                | Benjamin P. Waldman                    |
| Everett  | Roxbury                                |
| Allan Seserman                                     | Abraham Wasserman                      |
| <i>Tufts College</i>                               | Mattapan                               |
| Roxbury  | Ida Weinberg                           |
| Arthur Seserman                                    | Malden                                 |
| <i>Bentley School of Accounting and Finance</i>    | Simon D. Weissman                      |
| Roxbury  | <i>Yale University</i>                 |
| George F. Sexton                                   | Roxbury                                |
| <i>Boston University</i>                           | Gustaf J. Westberg                     |
| East Boston  | Boston                                 |
| Amedeo V. Sgarzi                                   | Stephen M. Wheeler                     |
| Plymouth   | Atkinson, N. H.                        |
| Myer H. Shaffer                                    | Harry B. White                         |
| Lynn   | <i>Mass. Institute of Technology</i>   |
| Jacob Shair  | Arlington                              |
| Dorchester   | Jennie White                           |
| Walter E. Shaughnessy                              | Dorchester                             |
| Woburn   | J. Harvey White                        |
| Joseph T. Shea                                     | <i>Boston University</i>               |
| Cambridge  | <i>Harvard University</i>              |
| Timothy J. Shea                                    | Chestnut Hill                          |
| Cambridge  | Albert J. Young                        |
| William M. Shea                                    | Medford Hillside                       |
| Winthrop   | Harry Zam                              |
| Alfred E. Shienfeld                                | Lynn                                   |
| <i>B.C.S., Northeastern University</i>             | Harry Zimon                            |
| Mattapan   | Roxbury                                |

# School of Law

## CLASS OF 1928

Paul Alpert	New Bedford	Mary F. Caterino	Arlington
Nellie F. Anderson	Wakefield	Herbert J. Cavanagh	Boston University
Kermit C. Atchicoff	Mattapan		South Boston
Barkev Y. Attarian	South Boston	Esther Chartkoff	Dorchester
Ernest A. Atwood, Jr.	Boston	Loretta A. Chisholm	Arlington
Max Barr	Medway	John J. Cineotia	Dorchester
Frank J. Barter	Melrose	Mary C. Clarke	Boston
Ledry A. Bascom, Jr.	A.B., Syracuse University	George M. Cohen	Boston
	Malden	Herman Cohen	Brookline
Abraham Beaumont	Dorchester	Thomas F. Colbert	Somerville
Philip E. Benjamin	Boston	John J. Conley	Bentley School of Accounting and Finance
Samuel Berkett	Roxbury		Roslindale
Idney B. Berkowitch	Boston	Howard C. Connor	Milton
Ralph S. Bernard	Dorchester	Felix Consentino	Lawrence
Arthur J. Bernier	Fitchburg	Boyd L. Cook	Brookline
Edward Bertman	Dorchester	John E. Coyne	Dorchester
Bessie Bickoff	Boston	Clarence W. Crayton	A.B., Boston College
Arthur Black	Malden		Boston
Charles H. Black	Wilmington	George L. Cronin	Arlington
Thomas F. Bough, Jr.	Haverhill	Charles A. Crowley	University of Notre Dame, South Bend, Ind.
Marcus A. Brener	Boston University		Dorchester
	Roxbury	Edwin D. Crowley	Brookline
George F. Briggan	Lowell	George E. Curley	Jamaica Plain
Gabriel Brodie	Mattapan	William T. Curley	Malden
Oscar E. Brodney	Roxbury	Paul B. Dalco	Dorchester
David Broude	Lynn	William J. Dee	Peabody
	Boston University	Ernest L. Desautels	Boston
Alfred Brown	B.Ch.E., Northeastern University	Leslie M. Dill	Quincy
	Everett	Kenneth T. Dillon	B.C.S., Northeastern University
Charles D. Brown	Roxbury		Milton
Lyman Brown	Lowell	Charles E. DiPesa	Boston University
David H. Burt	Boston		Bentley School of Accounting and Finance
Columbus H. Caliri	Lawrence		East Milton
Joseph P. Carmody	South Boston	James P. Doherty	South Boston
James W. Carolan	Cambridge	Leonard W. Dolan	A.B., Boston College
Joseph F. Carroll	Malden		Jamaica Plain
Francis R. Carson	Salem	Edward T. Donoghue	West Roxbury
Joseph Catania, Jr.	Boston	Bernard F. Donovan	A.B., Boston College
			A.M., Catholic University, Washington, D. C.
			Cambridge

# Northeastern University

- |  |                                 |
|--|---------------------------------|
| Charles F. Dougherty                     | Henry A. Getty                  |
| Malden                                   | Newton Center                   |
| Katherine L. Driscoll                    | Maurice Ginsburg                |
| Dorchester                               | Dorchester                      |
| Mary T. Duffy                            | Victor R. Goditiabo             |
| Swampscott                               | Medford                         |
| John R. Dwyer                            | Joshua Gold                     |
| Dorchester                               | Revere                          |
| Herbert Eilberg                          | Max T. Gold                     |
| Roxbury                                  | Tufts College                   |
| Leo M. Eisenberg                         | Chelsea                         |
| Chelsea                                  | Aaron G. Goldberg               |
| John E. Ellis                            | Dorchester                      |
| Somerville                               | David E. Goldberg               |
| Antonio England                          | Roxbury                         |
| New Bedford                              | Michael T. Golden               |
| Meyer F. Englander                       | Woburn                          |
| Boston                                   | Samuel Goodman                  |
| Joseph I. Epstein                        | New York University             |
| Roxbury                                  | Revere                          |
| Albert B. Ettinger                       | Frederick G. Granger            |
| Chelsea                                  | South Weymouth                  |
| Percy A. Falkenberg                      | John M. Grattan                 |
| Mass. Institute of Technology            | Somerville                      |
| Allston                                  | Arthur Greenberg                |
| Clement E. Fallon                        | Mass. College of Pharmacy       |
| Salem                                    | Dorchester                      |
| Carlton E. Fay                           | Waldemar H. Groop               |
| B.C.S., Northeastern University          | A.B., Clark University          |
| Waverley                                 | Quincy                          |
| James C. Feeney                          | Israel Grossman                 |
| Somerville                               | Dorchester                      |
| Harold P. Felton                         | John W. Guinee                  |
| Brookline                                | Medford                         |
| Robert S. Fifield                        | William J. Hagerty              |
| Bentley School of Accounting and Finance | Roxbury                         |
| Jamaica Plain                            | John J. Haley, Jr.              |
| John J. Finn                             | Cambridge                       |
| Charlestown                              | Thomas J. Hannon                |
| William A. Fisher                        | Canisius College                |
| Cambridge                                | Catholic University             |
| Richard H. Fleming                       | Dorchester                      |
| Chelsea                                  | George Hansen                   |
| Iiram S. Floyd                           | B.C.S., Northeastern University |
| Roxbury                                  | West Somerville                 |
| Thomas J. Flynn                          | David I. Haskell                |
| Dorchester                               | A.B., Harvard University        |
| John F. Forry                            | Dorchester                      |
| South Boston                             | John F. Havlin                  |
| Samuel L. Fox                            | Boston                          |
| Lawrence                                 | Edith M. Hayler                 |
| Roy W. T. Francis                        | Boston                          |
| B.S., E.E., Tufts College                | John F. Heaphy                  |
| B.C.S., Northeastern University          | Ph.B., Boston College           |
| Saugus                                   | Salem                           |
| Abraham M. Freedman                      | William C. Heatlie              |
| Roxbury                                  | Beverly                         |
| George J. Freedman                       | John J. Heffernan               |
| Roxbury                                  | Brighton                        |
| Albert M. Friedman                       | Maurice B. Helfant              |
| Cambridge                                | Milton                          |
| John M. Fuller                           | Edward E. Henry                 |
| Auburndale                               | Medford Hillside                |
| George Gallant                           | Francis J. Hickey               |
| Dorchester                               | A.B., Boston College            |
| Romeo R. Gallerani                       | Winthrop                        |
| Arlington                                | David Hight                     |
| William H. Garvin                        | Dorchester                      |
| Charlestown                              | John H. Hildreth, Jr.           |
| Arthur A. Gauthier                       | Somerville                      |
| Salem                                    | Walter R. Hinchon               |
| Courtenay H. Gendron                     | Quincy                          |
| A.B., Harvard University                 | Edward J. Hoffman               |
| Winchester                               | A.B., Harvard University        |
| Ilyman Gessman                           | Malden                          |
| Winthrop                                 |                                 |



## School of Law

Harry Holtz	Samuel S. Lewengrub
Everett	Dorchester
Orra F. Humphrey	E. Philip Littlefield
East Boston	<i>B.B.A., Boston University</i>
Harold D. Hunt	Danvers
<i>A.B., Harvard University</i>	Edgar J. Livingston
Bridgewater	Newton
John F. Hurley	Paul F. Lockwood
Jamaica Plain	<i>B.S., Dartmouth College</i>
Norman M. Hussey	Waban
Wollaston	Patrick E. Loughlin
Daniel E. Jacobs	<i>Boston University</i>
Mattapan	Wakefield
William Janask	Louis J. Lovinsky
East Boston	Boston
George H. Jacques	Myer H. Luvinisky
<i>Bentley School of Accounting and Finance</i>	Chelsea
West Somerville	George W. Lynch
Norman A. Jorgensen	Everett
<i>Milwaukee State Normal School</i>	Elvin D. MacArthur
Brighton	<i>Lowell Institute</i>
Chesley E. Joseph	Brighton
Cambridge	Irving C. McBride
Anna D. Kaitz	Boston
Roxbury	Agnes L. McCarthy
Fred P. Kaplan	Medford Hillside
Dorchester	Mary M. McCormack
Jonas Kaplan	Dorchester
Roxbury	Thomas H. McCormick
Betty Karasik	Newton
East Boston	Frank E. McFarlin
Albert K. Kaup	Roxbury
Dorchester	Prescott H. MacFee
Francis M. Kelly	<i>Boston University</i>
Boston	West Roxbury
Frank E. Killian	Edward L. McIntire
Newton	Boston
Carl J. Knutson	William E. McKendall
<i>Amherst College</i>	Boston
Mattapan	Ernest A. McKenna
Hyman S. Koch	East Boston
<i>B.C.S., Northeastern University</i>	George F. McLaughlin
Dorchester	Jamaica Plain
Clarence L. Kotarski	Donald S. McLeod
Salem	Winthrop
Max Kravitz	John T. McMorro
Boston	Dorchester
Joseph A. Krichmar	Alexander A. MacNichol
<i>B.C.S., Northeastern University</i>	Boston
Roxbury	John B. Magaldi
Richard H. Lalor	<i>Boston College</i>
Mattapan	Boston
Edward D. Larkin	William J. Magee
Quincy	<i>B.C.S., Northeastern University</i>
Victor A. Larsson	<i>B.B.A., Boston University</i>
Wellesley	Belmont
John D. Lawler	James P. Maher
<i>B.Ch.E., Northeastern University</i>	Roxbury
Lowell	Edward F. Maloney
Francis A. Lawson	<i>B.Ch.E., Northeastern University</i>
Gloucester	Dorchester
Joseph F. Leary	Faris S. Malouf
<i>B.B.A., Boston University</i>	Jamaica Plain
Dorchester	Mary B. Manevitch
Phillip Lemelman	Boston
Boston	John Manning
Russell W. Lettency	<i>B.B.A., Boston University</i>
<i>B.S., Dartmouth College</i>	Mattapan
Newton Highlands	Edith A. Mason
Jacob M. Levenson	Cambridge
Dorchester	Edward J. Mealy, Jr.
Philip Levi	Brookline
Chelsea	Harold J. Melican
Marcus J. Levins	Dorchester
Dorchester	Gordon H. Millar
	Lynnfield Center

# Northeastern University

Robert Mittel	Aaron Pofcher
Dorchester	Dorchester
Paul A. Mogan	John T. Powell
Waltham	Boston University
John J. Moran	South Boston
Cambridge	Pauline A. Prendergast
William F. Morrissey	Boston Normal School
South Boston	Dorchester
Alan R. Morse	Jacob Prenovitz
M.B.A., Harvard University	Roxbury
Brookline	Elmer E. Proctor
Gardner S. Morse	Mattapan
A.B., Harvard University	Walter J. Proctor
Hingham	Brookline
Louis Y. Muchnick	Simon Queen
B.B.A., Boston University	Beachmont
Dorchester	Helmer M. Raphael
John J. Mullen	B.B.A., Boston University
Boston	Roxbury
Eugene Muller	Michael J. Redington
Boston University	Jamaica Plain
Bentley School of Accounting and Finance	William G. Regan
South Braintree	Mattapan
John G. Mulligan	John J. Reid, Jr.
Newton	Brookline
Frank J. Mulloy	Samuel Resnic
Roxbury	Lynn
James J. Munroe	Florence Rice
Haverhill	Boston Normal School
Francis R. Murphy	Dorchester
Arlington	James F. Riley
Frederick A. Murphy	Arlington
Medford	Frank H. Robart
John H. Murphy	Tufts College
B.S., Dartmouth College	Harvard College
Malden	Newton
Timothy C. Murphy	George A. Rochford
Boston	Roxbury
James F. Murray	Irving Rogosin
Salem	Boston
J. Albert Nelson	Thomas F. Rooney
Roslindale	Georgetown University
Olive S. Newbegin	Waltham
Wheaton College	Saul R. Rosen
Salem	Dorchester
George Nicholson, Jr.	Sydney Rosenthal
Lynn	Boston
Lawrence J. Nolan	George B. Rossman
Boston	Neponset
Anna J. O'Brien	Murray Rotman
Brookline	Roxbury
Edward J. O'Connor	Leon Rubin
A.B., Boston College	Roxbury
Woburn	Benjamin W. Rudd
John A. O'Donnell	Roxbury
A.B., Boston College	Edmond W. Ryan
Dorchester	Roslindale
George W. O'Hare	Phillips C. Salman
Canisius College	B.C.S., Northeastern University
Lowell	Bristol County Agricultural School
Israel R. Ostrofsky	Mass. Agricultural College
Dorchester	Needham
Toivo A. Partan	Stacy C. Saunders
Fitchburg	Brown University
Elmer F. Perkins	Winthrop
Jamaica Plain	Samuel M. Sax
Harry Perlstein	B.B.A., Boston University
Mass. Institute of Technology	Dorchester
Everett	Roscoe D. Scannell
Joseph L. Pierce	Mattapan
Boston	Morris M. Schaffer
Jacob A. Plotkin	Roxbury
B.B.A., Boston University	Abraham Schneider
Dorchester	Boston
Robert J. Plunkett	Morris H. Schneiderman
Watertown	Dorchester

## School of Law

Martin R. Schofield	Katherine A. Sullivan
South Boston	Dorchester
Samuel Seefer	Pauline G. Swain
Roxbury	South Boston
Milton J. Segal	Anthony E. Swan
<i>Harvard University</i>	Dorchester
East Boston	John J. Swan, Jr.
Abraham Segool	Dorchester
Dorchester	James P. Sweeney
William Shand	Revere
Boston	Paul Sykes
Jennie R. Shankman	Norwood
Chelsea	Percy A. Teitelbaum
John E. Shannon	Boston
Lynn	Marion K. Terry
Rose Shapiro	West Somerville
Cambridge	Leonard C. Tims
Morris C. Sherter	Arlington
Roxbury	George I. Tofias
Charles H. Shienfield	<i>B.B.A., Boston University</i>
Mattapan	Roxbury
George J. Sibulkin	Barney Victorovitz
Dorchester	Roxbury
Oscar Silver	Martina Walsh
<i>Northeastern University</i>	Forest Hills
Boston	Mary B. Walsh
Charles T. Small, Jr.	Dorchester
Bath, Maine	Haskell Wasserman
William A. Smart	Mattapan
Wollaston	Edward A. Welch
Herbert B. Smith	Revere
East Milton	Sheppard Werner
Joseph J. Smith, Jr.	Dorchester
<i>Boston College</i>	Richard Wester
Dorchester	Quincy
L. Alberta Smith	Albert White
Wollaston	<i>Northeastern University</i>
Meyer Solomont	Mattapan
Lowell	Waldo B. Whiting
Edward M. Speirs	Boston
Atlantic	George Winterson
Ruth R. Spevack	Jamaica Plain
Dorchester	Sydney C. Wray
Leo J. Steinberg	Boston
South Boston	Charles B. Wyman
George Strangman	Cambridge
<i>Bentley School of Accounting and Finance</i>	Joseph Yunker
Lynn	Roxbury
John B. Sullivan	Samuel Zimmon
<i>A.B., Harvard College</i>	Boston
Belmont	

## CLASS OF 1929

Gabriel Abrahams	Arthur G. Applebee
Roxbury	Amesbury
Theobald R. Acone	Herman J. Arenovski
Boston	<i>Dartmouth College</i>
Benjamin R. Alexander	Boston
Boston	Felice A. Arnone
Daniel D. Allen	East Boston
Natick	Nicholas A. Avgerinos
Robert S. Allen	Quincy
Natick	William Avin
Alex Alpert	Chelsea
East Boston	Arthur H. Ayseough
Augusta E. Altman	Wakefield
Lawrence	Joseph S. Bachorowski
Joseph Altman	Salem
New Bedford	Elliot Baker
Alice C. C. Andersen	Brockton
Roslindale	Robert A. Baker
Walter H. Apperson	Boston
<i>B.C.S., Northeastern University</i>	Luduico L. Barba
Arlington	Dorchester

## Northeastern University

- Sarah R. Barenboim  
     Lawrence  
 Margaret A. Barry  
     Chelsea  
 Elmer A. Bartlett  
     Lynn  
 Paul E. Battilana  
     West Roxbury  
 Samuel H. Becker  
     Boston  
 Philip Beggelman  
     Boston  
 Richard W. Bennett  
     *A.B., Harvard University*  
     Somerville  
 Max H. Berfield  
     Dorchester  
 Edward I. Berman  
     Lexington  
 Arthur Berson  
     Chelsea  
 William A. Billings  
     *A.B., Boston College*  
     *A.M., Boston College*  
     Arlington  
 Gordon S. Blair  
     *Mass. Institute of Technology*  
     Boston  
 Louis J. Blender  
     Dorchester  
 Arthur C. Bluestein  
     Dorchester  
 John A. Blunden  
     Roxbury  
 Henry S. Boman  
     Abington  
 Claude J. Bourget  
     *Bowdoin College*  
     Boston  
 John J. Brennan  
     Somerville  
 Marion I. Brodsky  
     Boston  
 Alfred J. Brooks  
     Jamaica Plain  
 Harold B. Bross  
     *A.B., Harvard University*  
     Boston  
 Delos N. Brown  
     Foxboro  
 Edward E. Brown  
     Somerville  
 Irving H. Brown  
     *Boston University*  
     Boston  
 James A. Buckley  
     Charlestown  
 Thomas A. Bullock  
     Arlington  
 Abraham S. Burack  
     Dorchester  
 Charles D. Burke  
     *Boston University*  
     Hyde Park  
 John J. Burke  
     Lynn  
 Joseph H. Burns  
     Charlestown  
 Frederick W. Buswell  
     *B.S., Dartmouth College*  
     *M.C.S., Dartmouth College*  
     Lynn  
 Michael H. Byrne  
     *Boston University*  
     Boston
- Arthur L. Callaghan  
     Haverhill  
 Walter Callahan  
     Ipswich  
 Eric W. G. Campbell  
     Boston  
 Louis A. Cannon  
     Chelsea  
 Israel Chadis  
     Boston  
 Ralph Chafe  
     *Northeastern University*  
     Roxbury  
 Pembroke B. Chinn  
     *Lowell Institute*  
     Boston  
 Edward F. Clark  
     Revere  
 Mary P. Clark  
     Boston  
 William S. Cleaves  
     *Lowell Institute*  
     Wollaston  
 Norman H. Clements  
     Somerville  
 M. Gardner Clemons  
     Wakefield  
 Joseph F. Coffey  
     Newport, R. I.  
 Israel Cohen  
     Roxbury  
 Jacob L. Cohen  
     *Tufts College*  
     Dorchester  
 Samuel Cohen  
     Chelsea  
 Saul Cohen  
     *B.Sc., Mass. Agricultural College*  
     Dorchester  
 Samuel Cole  
     Dorchester  
 Thomas H. Coleman  
     Mattapan  
 Simon College  
     *Rhode Island State College*  
     Brockton  
 Charles F. Collins  
     *A.B., Boston College*  
     *M.B.A., Harvard University*  
     Dorchester  
 Desmond M. Collins  
     *B.M.E., Northeastern University*  
     Dorchester  
 Ida V. Collins  
     Jamaica Plain  
 John C. Collins  
     *S.B., Union College*  
     *Harvard University*  
     Cambridge  
 James L. Combs  
     *Harvard University*  
     Framingham  
 Francis M. Conley  
     *B.C.S., Northeastern University*  
     Brookline  
 Howard W. Cooke  
     *B.E.E., Northeastern University*  
     Cambridge  
 Charles L. Corwin  
     *Boston University*  
     Boston  
 Thomas M. Cosgrove  
     Cambridge  
 Hazel M. Cosby  
     West Somerville

## School of Law

- John I. Craig  
Lynn
- John F. Crowe  
Quincy
- John W. Cuff  
Boston
- Leona H. Curran  
Charlestown
- Julian Dabrowski  
South Boston
- William P. Daley  
Woburn
- Lawrence B. Damon  
*A.B., Harvard University*  
Brookline
- Lester H. Dana  
*B.B.A., Boston University*  
Brookline
- Edmund C. Darey  
Lenox
- Philip S. Davis  
*Tufts College*  
Arlington
- William J. DeCourcy  
Boston
- William J. DeLargy  
Hingham
- Merry A. Dibblee  
Wrentham
- Alviro DiMeo  
*LL.B., Naples University, Naples, Italy*  
Everett
- William E. Doherty  
*Boston University*  
Boston
- William J. Doherty, Jr.  
Newtonville
- Josephine A. Donahue  
West Somerville
- Joseph S. Donlan  
Waltham
- William J. Doyle  
Boston
- John A. Driscoll  
Maynard
- George Dunleavy  
*Boston College*  
Cambridge
- William W. Durkee  
Newton
- Alfred T. Dutton  
Boston
- Francis X. Dwyer  
*A.B., Harvard University*  
*A.M., Harvard University*  
Cambridge
- Timball Easterbrooks  
Chelsea
- Lawrence H. Egan  
Jamaica Plain
- Charles W. Eldridge  
*Boston University*  
Allston
- David Elfman  
Dorchester
- Arnold N. Ellison  
Everett
- Isaiah A. Elovitz  
Dorchester
- Muel Epstein  
New Bedford
- David Faber  
Taunton
- Edward A. Fahey  
*Lowell Institute*  
Newton
- Harry Fainglas  
*City College of New York*  
West Roxbury
- James F. Feeney  
*A.B., Boston College*  
Jamaica Plain
- Aaron Feinberg  
*S.B., E.E., Harvard University*  
Brookline
- Abraham Feldman  
Chelsea
- James J. Fenton  
Cambridge
- Ernest A. Ferdinand  
Wollaston
- Stephen D. Finale  
Boston
- Edward Fine  
Lowell
- Irving M. Finkelstein  
Dorchester
- Louis J. Fish  
Boston
- Roscoe W. Fitts  
*B.S., Harvard University*  
Brighton
- Daniel M. Fitzgerald  
Haverhill
- John J. Flynn  
Somerville
- Joseph A. Forgiione  
Everett
- Claude V. Freeman  
Lynn
- Edward Frutman  
Chelsea
- Ruth L. Galvin  
*Boston University*  
East Milton
- Edwin G. Gammon  
Cambridge
- George C. D. Gardiner  
*A.B., Harvard University*  
Dorchester
- Arthur L. Gaskins  
*University of New Hampshire*  
Milton
- Hyman Geller  
Dorchester
- Kenneth W. Gerritson  
Waltham
- Max Gerstein  
Dorchester
- Carl E. Giannone  
West Medford
- Demetrios D. Giatas  
*Greek National Lyceum*  
Lowell
- Walter H. Gilday  
Brockton
- Louis Ginsburg  
Dorchester
- Benjamin Gochros  
Chelsea
- David Goldberg  
*B.B.A., Boston University*  
Roxbury
- Hyman N. Goldberg  
Dorchester
- Morris Goldberg  
*Boston University*  
Mattapan
- Myer Goldberg  
Dorchester
- David S. Goldfine  
*Boston University*  
Dorchester

## Northeastern University

- |                                  |  |
|----------------------------------|--|
| Helen Goldman                    | Louis H. Hoffman                           |
| Boston                           | Roxbury                                    |
| Irving Goldsmith                 | Joseph E. Holleran                         |
| Chelsea                          | <i>Rhode Island State College</i>          |
| Harry Goldstein                  | Roslindale                                 |
| Roxbury                          | Roland L. Holub                            |
| Ralph C. Good                    | South Boston                               |
| <i>A.B., Boston College</i>      | Charles D. Hourihan                        |
| Roxbury                          | Revere                                     |
| John J. Goodfellow, Jr.          | Francis J. Hughes                          |
| Boston                           | Stoneham                                   |
| David B. Goodman                 | Charles F. Hunnewell                       |
| <i>Boston University</i>         | Medford Hillside                           |
| Boston                           | Horatio F. Hunt                            |
| David M. Goodman                 | <i>B.C.S., Northeastern University</i>     |
| <i>Northeastern University</i>   | Greenwood                                  |
| New Bedford                      | William A. Hurley                          |
| Samuel Goodman                   | Medford                                    |
| Mattapan                         | Augustus S. Hyland                         |
| Lillian M. Goranson              | Brookline                                  |
| Atlantic                         | Jacob V. Itzkowitz                         |
| Clyde E. Goudey                  | <i>Bowdoin College</i>                     |
| <i>University of Maine</i>       | Chelsea                                    |
| Boston                           | Morrison C. James                          |
| Sarah Gorodnitzky                | <i>Bowdoin College</i>                     |
| Chelsea                          | East Walpole                               |
| George W. Grant                  | Oelide D. Jasmin, Jr.                      |
| <i>Mass. College of Pharmacy</i> | Lowell                                     |
| Everett                          | James J. Jellison                          |
| Louis Green                      | North Cambridge                            |
| Dorchester                       | Mary M. Jennings                           |
| Hymen Greenbaum                  | Dorchester                                 |
| Lowell                           | Henry E. Jennings                          |
| Eleanore M. Griffin              | <i>A.B., Bos'ron College</i>               |
| Waltham                          | Boston                                     |
| Joseph M. Grigas                 | Ernest C. Johnson                          |
| Brockton                         | Dorchester                                 |
| Saul Grusky                      | James H. Jones                             |
| Everett                          | <i>Hampton Institute</i>                   |
| Abraham S. Hacker                | Roxbury                                    |
| Salem                            | Louis I. Jones                             |
| Harry Halperin                   | <i>B.C.S., Northeastern University</i>     |
| <i>B.B.A., Boston University</i> | Roxbury                                    |
| Boston                           | George Kane                                |
| Willis A. Harlow                 | Cambridge                                  |
| <i>University of Maine</i>       | Samuel Kates                               |
| Boston                           | Dorchester                                 |
| George S. Harrington             | Jacob Kaplan                               |
| <i>Providence College</i>        | Boston                                     |
| New Bedford                      | Sophira Kapson                             |
| Thomas E. Harrington             | Chelsea                                    |
| Everett                          | George S. Kara                             |
| John A. Hayes                    | Clinton                                    |
| <i>Northeastern University</i>   | Mardiros Kazanjian                         |
| South Boston                     | Boston                                     |
| Thomas F. Hayes                  | Mary H. Keefe                              |
| Weston                           | Wellesley                                  |
| Walter C. Hayes                  | Saul I. Kemler                             |
| Lowell                           | Cambridge                                  |
| Holland W. Hazen                 | George M. Kennedy                          |
| Winter Hill                      | Medford                                    |
| Joseph L. Heaney                 | Richard L. Kent                            |
| Malden                           | Quincy                                     |
| Samuel Hecht                     | Ambrose L. Kerrigan                        |
| Dorchester                       | <i>S.B., Mass. Institute of Technology</i> |
| Morris Heller                    | Woburn                                     |
| Roxbury                          | Assadoor M. Khederian                      |
| Mary F. Hicks                    | Roslindale                                 |
| Dorchester                       | William J. Kiernan                         |
| Fred W. Hillman                  | Boston                                     |
| Revere                           | Samuel Klein                               |
| Abraham Hirschorn                | <i>New York University</i>                 |
| Roxbury                          | Malden                                     |
| Donald C. Hodgson                | Esther Kline                               |
| <i>University of Arizona</i>     | Mattapan                                   |
| Tucson, Arizona                  |  |

## School of Law

- |  |  |
|--|--|
| <p>                     R. H. Knopp<br/> <i>B.E.E., Northeastern University</i><br/>                     West Somerville                 </p> <p>                     J. Kowal<br/>                     Boston                 </p> <p>                     Erice H. Kramer<br/>                     Boston                 </p> <p>                     Alexander V. LaCreta<br/> <i>Boston University</i><br/>                     Somerville                 </p> <p>                     Ward O. Laird<br/>                     Somerville                 </p> <p>                     ahaham Landa<br/>                     Somerville                 </p> <p>                     hard Landsberg<br/> <i>B.S., Tufts College</i><br/>                     Roxbury                 </p> <p>                     arard F. Lawler<br/>                     Hyde Park                 </p> <p>                     i M. Leaver<br/>                     Brookline                 </p> <p>                     est L. Lell'ier<br/>                     Revere                 </p> <p>                     id Lemelman<br/>                     Boston                 </p> <p>                     Iris A. Leven<br/>                     Mattapan                 </p> <p>                     han J. Levi<br/>                     Chelsea                 </p> <p>                     el I. Levine<br/>                     Chelsea                 </p> <p>                     n Libby<br/>                     Roxbury                 </p> <p>                     uel Libby<br/>                     Boston                 </p> <p>                     rge I. Lief<br/>                     Roxbury                 </p> <p>                     uel L. Liftman<br/> <i>Northeastern University</i><br/>                     Chelsea                 </p> <p>                     on E. Lincoln<br/>                     Campello                 </p> <p>                     uel L. Lipman<br/>                     New Bedford                 </p> <p>                     old F. Lombard<br/>                     Arlington                 </p> <p>                     han B. London<br/> <i>Northeastern University</i><br/>                     Boston                 </p> <p>                     il. Lunin<br/>                     Dorchester                 </p> <p>                     iel F. Lynch<br/>                     Jamaica Plain                 </p> <p>                     uk B. Lynch<br/> <i>Boston University</i><br/>                     Dorchester                 </p> <p>                     aes J. Lynch<br/> <i>LL.B., Georgetown Law School</i><br/>                     Dorchester                 </p> <p>                     ceis J. McCabe<br/>                     Dorchester                 </p> <p>                     othy J. McCarthy, Jr.<br/>                     Dorchester                 </p> <p>                     ceis W. McCoy<br/>                     Roxbury                 </p> <p>                     n M. McCushing<br/>                     Boston                 </p> <p>                     n J. MacDonald<br/>                     Dorchester                 </p> <p>                     am H. McDonald<br/>                     Dorchester                 </p> <p>                     ard L. McDonough<br/>                     Charlestown                 </p> <p>                     ceis X. McInnis<br/> <i>Canisius College</i><br/> <i>Catholic University</i><br/>                     Roxbury                 </p> | <p>                     Albert B. MacKay<br/>                     Lynn                 </p> <p>                     Theodore N. MacKay<br/>                     Waverley                 </p> <p>                     Lloyd J. MacLean<br/>                     Hyde Park                 </p> <p>                     Alexander B. McLeod, Jr.<br/>                     Wollaston                 </p> <p>                     John R. McManus<br/>                     Lynn                 </p> <p>                     James J. McQuaid<br/> <i>Boston College</i><br/>                     Everett                 </p> <p>                     Maurice Mack<br/>                     Chelsea                 </p> <p>                     James B. Maguire<br/>                     Boston                 </p> <p>                     Charles F. Mahony<br/> <i>A.B., Boston College</i><br/>                     Dorchester                 </p> <p>                     Abraham Malatsky<br/>                     Chelsea                 </p> <p>                     G. Eleanor March<br/> <i>A.B., Boston University</i><br/>                     Brookline                 </p> <p>                     Harold Margolis<br/>                     Chelsea                 </p> <p>                     Edwin S. Markham<br/> <i>A.B., Holy Cross College</i><br/>                     Lowell                 </p> <p>                     Robert Maron<br/>                     Salem                 </p> <p>                     Carl A. Mattson<br/>                     South Boston                 </p> <p>                     Marjory Maxwell<br/> <i>A.B., Jackson College</i><br/>                     Somerville                 </p> <p>                     Frances B. Mea<br/> <i>Bridgewater Normal School</i><br/> <i>Boston Normal School</i><br/> <i>Boston University</i><br/>                     Dorchester                 </p> <p>                     Constance M. Meagher<br/>                     Milton                 </p> <p>                     Eva Mendelsohn<br/>                     Brookline                 </p> <p>                     Herbert L. Metcalf, Jr.<br/>                     Franklin                 </p> <p>                     David B. Michelson<br/>                     Dorchester                 </p> <p>                     Max I. Miller<br/>                     Chelsea                 </p> <p>                     Leo Milotte<br/>                     Boston                 </p> <p>                     Paul Milotte<br/>                     Boston                 </p> <p>                     Alfred Mininelevi<br/>                     East Boston                 </p> <p>                     Rose Minsky<br/>                     Boston                 </p> <p>                     James A. Monahan<br/>                     Everett                 </p> <p>                     Esther F. Monson<br/>                     Boston                 </p> <p>                     Andrew C. Moran<br/> <i>A.B., Holy Cross College</i><br/> <i>M.D., Tufts College</i><br/>                     Somerville                 </p> <p>                     Andrew D. Morse<br/>                     Holliston                 </p> <p>                     Morris Moscow<br/>                     Dorchester                 </p> <p>                     Edward D. Mullane<br/>                     Boston                 </p> <p>                     George J. Mullen<br/>                     Charlestown                 </p> |
|--|--|

## Northeastern University

- Arthur Murmes  
Roxbury
- James W. Mutch  
*Dalhousie University*  
Boston
- Prince W. Myrns  
*University of Tennessee*  
Brockton
- John N. Najjar  
Dorchester
- Harry Nannis  
*Mass. College of Pharmacy*  
Roxbury
- Samuel Nannis  
*Ph.G., Mass. College of Pharmacy*  
Roxbury
- Mabel E. Nicholl  
Boston
- Frank K. Niechcay  
*B.C.E., Northeastern University*  
Boston
- William J. Noonan  
Boston
- Edmund G. O'Brien  
*B.S., Boston College*  
Somerville
- James F. O'Brien  
*A.B., Boston College*  
Waltham
- James A. O'Connor, Jr.  
Lynn
- John F. O'Donnell  
Boston
- Roderick L. O'Handly  
Boston
- Albert J. O'Keeffe  
Roxbury
- Fred V. Ostergren  
*A.B., Holy Cross College*  
Malden
- Raymond A. Owens  
*B.B.A., Boston University*  
Boston
- Maurice J. Packer  
Dorchester
- Samuel Papkin  
Roxbury
- Orrin M. Patrick  
Salem
- Charles W. Pearson  
*A.B., Dartmouth College*  
*B.B.A., Boston University*  
*M.B.A., Boston University*  
Arlington
- Frank W. Perry  
Malden
- James F. Philbrick  
Revere
- Gordon S. Pinkham  
*Harvard University*  
Dorchester
- John J. Piscitelli  
Roxbury
- William I. Plummer  
Chelsea
- Manuel S. Pollack  
Dorchester
- Bernard Porter  
Dorchester
- James L. Powers  
South Boston
- Meyer Pressman  
Chelsea
- John B. Putney  
Salem
- Joseph F. Quinlan  
Roxbury
- Francis P. Quinn  
Salem
- John J. Quirk  
*Mass. College of Pharmacy*  
Winthrop
- Esther R. Rabinovitz  
Boston
- Nicholas Raimo  
Everett
- Alphonso F. Raynes  
*A.B., Yale University*  
*B.S., Columbia University*  
*M.D., Columbia University*  
Boston
- Joseph A. Re  
Everett
- Joseph W. Reardon  
*Tufts College*  
South Boston
- Clement G. Redmond  
*B.B.A., Boston University*  
Auburndale
- Mary J. Reidy  
Roxbury
- Eliot W. Remick  
*A.B., Harvard University*  
Brookline
- Leon P. Reservitz  
Brockton
- Oscar Resnick  
Chelsea
- Joseph S. Rezendes  
Boston
- Benjamin Richman  
Dorchester
- Miriam Richmond  
*A.B., Jackson College*  
Chelsea
- Camille J. Robert  
*St. Thomas College, Valleyfield, P.Q.*  
New Bedford
- Nathan Robinovitz  
Boston
- Henry H. Robinson  
Malden
- Saul H. Robinson  
Boston
- Benjamin A. Rooks  
Salem
- Reuben L. Rose  
Chelsea
- David E. Rosen  
Boston
- Benjamin L. Rosenberg  
Revere
- Nathan Rosenberg  
Lawrence
- Isedore Rosenthal  
*B.C.S., Northeastern University*  
Everett
- Allan S. Ross  
Jamaica Plain
- Morris Rothberg  
Dorchester
- Nathan E. Rothberg  
Dorchester
- Milton M. Rothenberg  
Brookline
- Robert C. Rourke  
Lynnfield Center
- Demetrios I. Rousakis  
Boston
- Bernard Rubenstein  
Roxbury
- Isadore Rubin  
Boston



## School of Law

- ed K. Sabbag  
     Boston  
 rry J. Saftel  
     Mattapan  
 yer H. Salow  
     Roxbury  
 non J. Salow  
     Roxbury  
 rman Sandler  
     Revere  
 illiam Sandler  
     Cambridge  
 ich O. Schank  
     *B.C.S., Northeastern University*  
     Roslindale  
 vid Segal  
     Jamaica Plain  
 arles I. Seigal  
     Chelsea  
 eodore D. Shapleigh  
     *B.S., Dartmouth College*  
     *M.B.A., Harvard University*  
     East Milton  
 wrence M. Sibley  
     Medford  
 ron Sibulkin  
     Dorchester  
 ther L. Silk  
     Roxbury  
 muel O. Silver  
     West Medway  
 lem B. Silver  
     West Medway  
 lton Silverman  
     Chelsea  
 than Silverstein  
     Mattapan  
 o L. Simensky  
     *B.B.A., Boston University*  
     Boston  
 rman Simons  
     Mattapan  
 wis G. Slack  
     Everett  
 ank W. Smith  
     Chelsea  
 hn A. Smith, Jr.  
     Watertown  
 muel Smith  
     Roxbury  
 rnard B. Solar  
     *Bates College*  
     *University of Michigan*  
     Lynn  
 vid Solomon  
     Caribou, Maine  
 ancis E. Spaulding  
     Portland, Maine  
 berty O. Spurdle  
     *Mass. Institute of Technology*  
     Watertown  
 cob Stavisky  
     Chelsea  
 eph B. Stillman  
     Newburyport  
 eph T. Stockbridge  
     Bar Harbor, Maine  
 cob Stone  
     *Tufts College*  
     East Boston  
 orge L. Stretch  
     Jamaica Plain  
 fred Sulkin  
     Boston  
 rnard M. Sullivan  
     Ipswich  
 Edmund A. Sullivan  
     Hartford, Conn.  
 Edward J. Sullivan  
     Boston  
 Joseph E. Sullivan  
     South Boston  
 Joseph F. Sullivan  
     *Boston College*  
     Brighton  
 Willard D. Sullivan  
     *Lowell Textile School*  
     Lowell  
 George Swartz  
     Taunton  
 Morris Swartzman  
     Chelsea  
 John P. Swift  
     Dorchester  
 Charles H. Talbot  
     Charlestown  
 Sherman Tarlow  
     Brockton  
 Charles I. Taylor  
     Roxbury  
 Wallace H. Terry  
     Brockton  
 Philip Tesorero  
     Boston  
 Frank H. Thomas  
     *Harvard University*  
     Cambridge  
 John W. Thomas  
     Boston  
 William A. Thurman  
     *Tufts College*  
     Brookline  
 Norman B. Tobias  
     Dorchester  
 William A. Tobin  
     Jamaica Plain  
 Alfred A. Toscano  
     Boston  
 Harry Trusten  
     Roxbury  
 John S. Tufts  
     Watertown  
 John J. Tuohey  
     *St. Mary's College*  
     Roslindale  
 Edwin G. Turner  
     Wollaston  
 Irving L. Ucran  
     Medway  
 Richards G. Vedeler  
     Newton  
 Samuel A. Vernon  
     Dorchester  
 Charles G. Verge  
     Charlestown  
 John P. Waite  
     *B.A., University of Maine*  
     Winthrop  
 William Wald  
     Mattapan  
 William Waldstein  
     Boston  
 William S. Wallace  
     *B.B.A., Boston University*  
     Wakefield  
 David B. Walsh  
     *Bristol County Agricultural School*  
     West Somerville  
 Daniel J. Ward  
     *Ph.G., Mass. College of Pharmacy*  
     Cambridge

## Northeastern University

Hyman P. Weiner  
Mattapan  
William H. Weiss  
Dorchester  
John R. Wellman  
*Norwich University*  
Melrose  
Mark R. Werman  
*B.S., Harvard University*  
Dorchester  
Wilfred B. Werner  
Dorchester  
Daniel B. Whipple  
*Colby College*  
Allston  
Lewis F. Whiton  
Malden  
Harold E. Wing  
*Northeastern University*  
Lynn  
Sidney A. Wolbarst  
Roxbury

Louis Wolf  
Boston  
Reginald J. Wood  
Boston  
Howard P. Woodlock  
Boston  
James W. Woodward  
Boston  
Jacques V. Yates  
Boston  
Harold H. Yoffa  
*Boston University*  
Chelsea  
Abraham J. Yorra  
Boston  
Albert A. Zahka  
Allston  
Sidney J. Zetter  
Winthrop  
Maxwell P. Zide  
Boston  
Louis Zimble  
Chelsea

### STUDENTS WITH IRREGULAR SCHEDULES

Thomas E. Abely  
Winthrop  
Albert C. Acker  
*B.S., Dartmouth College*  
Allston  
Charles Andelman  
Cambridge  
Elmer E. P. Atherton  
Boston  
Alva B. Basham  
*A.B., Harvard University*  
East Boston  
Elliott F. Cameron  
Winchester  
Abraham Carro  
Boston  
Edward J. Casey  
*A.B., Harvard University*  
Cambridge  
Ted Chopas  
Roslindale  
William H. Clancy  
Gloucester  
Herman F. Clark  
Milton  
James H. Conlon  
Dorchester  
Warren G. Currie  
*A.B., Harvard University*  
*A.M., Harvard University*  
Cambridge  
Matthew J. Dailey  
Boston  
Michael H. Daley  
Chelsea  
Ronald J. Darby  
Hingham  
Michael T. Doherty  
*L.L.B., Georgetown University*  
Boston  
John J. Egan  
Boston  
James E. Fitzgerald  
Brockton  
O. Beatrice Forknall  
*Framingham Normal School*  
Newton

Hiram Freedman  
*B.A., Harvard University*  
*M.B.A., Harvard University*  
Salem  
Abraham Gerber  
*University of Maine*  
*Boston University*  
Haverhill  
John W. Gorman  
*B.C.S., Northeastern University*  
Jamaica Plain  
Chesterfield H. Greene  
Boston  
William C. Haberer  
*Roanoke College, Salem, Va.*  
Boston  
Ralph B. Heavens  
*Amherst College*  
Plymouth  
Alfred E. Henderson  
Dedham  
Thomas A. Kelleher  
Salem  
Herbert C. Kelley  
*Vermont University*  
Revere  
Elice J. Kyritsi  
*National and Capodistrian University*  
Greece  
Somerville  
Karl von Ladau  
*Boston University*  
Brookline  
George S. Lawler, Jr.  
Winthrop  
Cornelius A. Leary  
East Boston  
William F. Looney  
*A.B., Harvard University*  
*A.M., Boston College*  
Dorchester  
Walter E. MacEachern  
Arlington  
George W. Macwha  
Boston  
George E. Mayall  
Waltham

## School of Law

- |  |   |
|--|---|
| Carl R. McGhee                                 | Evelyn L. Sheehy                              |
| LL.B., <i>City College of Law and Finance,</i> | Boston  |
| <i>St. Louis, Mo.</i>                          | Bessie Stone                                  |
| Boston   | Roxbury                                       |
| Christopher M. McGrath                         | John Storer, Jr.                              |
| Medford  | <i>Ph.B., Brown University</i>                |
| Maris Miller                                   | Brighton                                      |
| Roxbury  | Theodore C. Streibert                         |
| Stephen F. Monson                              | <i>B.S., Wesleyan University</i>              |
| Boston   | <i>M.B.A., Harvard University</i>             |
| Edward D. Moore                                | Cambridge                                     |
| South Boston                                   | Harry A. Taylor                               |
| John T. Neville                                | <i>Tufts College</i>                          |
| <i>B.S., Bates College</i>                     | <i>Boston University</i>                      |
| Malden   | Dorchester                                    |
| James L. O'Donnell                             | Mary A. Thomey                                |
| Rockland                                       | South Boston                                  |
| Ivin L. Olson                                  | William J. Trainor                            |
| Woburn   | Malden  |
| Marleton B. Perry                              | John M. Tully                                 |
| Hyde Park                                      | Roxbury                                       |
| Joseph Plotkin                                 | Peter F. Ward                                 |
| Boston   | <i>LL.B., Columbus University</i>             |
| Leo Resnick                                    | Boxbury                                       |
| Boston   | C. Sheldon Williams                           |
| Charles E. Ruby                                | Roxbury                                       |
| <i>B.S., University of Kentucky</i>            | Muriel Wise                                   |
| <i>Ph.D., Mass. Institute of Technology</i>    | <i>A.B., Smith College</i>                    |
| Cambridge                                      | Brighton                                      |
| Harold R. Savage                               | Cecil G. Woolaver                             |
| Medford  | <i>B.A., King's University, Halifax, N.S.</i> |
| Philip B. Sawyer                               | Lynn  |
| <i>University of Pennsylvania</i>              | Oscar R. Zetterbaum                           |
| Brookline                                      | Dorchester                                    |
| Rose M. Shanley                                |   |
| Malden   |   |

# Northeastern University

## WORCESTER

### CLASS OF 1926

Joseph A. Butler  
Worcester  
Daniel F. Carroll  
Worcester  
William P. Finneral  
Worcester  
Michael P. Friel  
Worcester  
Dennis H. Haverty  
Worcester  
Rodney M. Leland  
Northboro  
James A. Lobban  
*Harvard University*  
Webster  
Walter J. Mahoney  
*B.C.S., Northeastern University*  
Worcester

Benjamin T. McGourty  
Worcester  
Roy G. A. Petterson  
Worcester  
James L. Shannon  
Worcester  
Henry C. Walsh  
*A.B., Holy Cross College*  
*A.M., Clark University*  
Worcester  
Luther B. Wicks  
Worcester  
Eugene Yarrington  
*Boston University*  
Upton

### CLASS OF 1927

Grace I. Abramson  
Worcester  
Umberton S. Aspero  
*Holy Cross College*  
*Bentley School of Accounting and Finance*  
Worcester  
John F. Carey  
Worcester  
Siro J. Celle  
North Grafton  
Frederick J. Connor  
Auburn  
Dominic DiCiccio  
Worcester  
William F. Holland  
Worcester  
Joseph Jasper  
Worcester  
Anna E. Johnson  
Worcester  
John P. Johnson  
*Monument Nationale, Greece*  
*Worcester Polytechnic Institute*  
Worcester  
Lewis G. Landers  
Worcester  
Harry C. Lemoine  
*Macdonald Agricultural College*  
Fitchburg

Aven S. Levenson  
Worcester  
John E. Ratigan  
*A.B., Holy Cross College*  
*M.A., Clark University*  
Worcester  
John Richardson  
*Yale University*  
Worcester  
Paul A. Riordan  
Worcester  
Jeremiah T. Shea  
*University of Maine*  
Worcester  
Fred J. Snow  
North Oxford  
Ernest F. Walker  
*Worcester Polytechnic Institute*  
Worcester  
Foster B. Whitehead  
*Brown University*  
Worcester  
Willard L. Wyatt  
*Grand View Normal Institute*  
*Huwassee College*  
Westboro

### CLASS OF 1928

Timothy J. Ahearn  
Worcester  
Beatrice H. Almy  
Worcester  
Barnet J. Burwick  
*Boston University*  
*Clark University*  
Worcester  
Paul A. Choquette  
Worcester  
Edward B. Conroy  
Worcester  
George Crompton, Jr.  
*A.B., Harvard University*  
Worcester  
Aloysius A. Curran  
*Holy Cross College*  
Worcester

Max Cushing  
Worcester  
Grace M. Doherty  
Worcester  
Max Epstein  
Worcester  
Herbert C. Fohlin  
Worcester  
Lina Gaunt  
*Columbia College of Osteopathy*  
Worcester  
Joseph H. Goguen  
*Holy Cross College*  
Leominster  
Carl L. Greenslit  
Worcester  
Louis H. Griff  
*Worcester Polytechnic Institute*  
Worcester

## School of Law

Edmond T. Heffernan	Maude E. Russell
Southbridge	<i>Hunter College</i>
Wray N. Kimball	Worcester
Leominster	Mary A. Sienkiewicz
Sidney B. Knowlton	Worcester
<i>Clark University</i>	Louis M. Skiest
Worcester	Worcester
Oscar Loddy	Albin V. Sponberg
<i>Imperial Medical Academy</i>	Worcester
Worcester	Jacob Stahl
Henry E. Manning	Worcester
<i>Holy Cross College</i>	Albert Stonkus
<i>University of Virginia</i>	Worcester
Worcester	Samuel Waxler
Valter T. Pierce	Worcester
<i>A.B., Harvard University</i>	William E. Yeaw
<i>B.S., in E.E., Harvard University</i>	Leominster
Worcester	

### CLASS OF 1929

Carl J. Aldrich	Edward Gordon
Uxbridge	Worcester
Albert T. Arnold	Irene Gowetz
<i>Worcester Polytechnic Institute</i>	Worcester
Worcester	Joseph M. Healy
John M. Bagdigian	<i>Holy Cross College</i>
<i>Tufts College</i>	Worcester
Worcester	Chauncey S. Hulbert
Edward J. Bergen	Worcester
<i>New York University</i>	Israel Isenberg
Worcester	Worcester
Eleanor K. Bettley	Maurice Jaffe
Worcester	Worcester
Wilbur Campbell	Stanley W. Johnson
Worcester	Worcester
Strid E. Carlson	Israel Katz
Worcester	Worcester
Joseph N. Casale	Harold Lederman
Worcester	<i>Bentley School of Accounting and Finance</i>
Anna Cohen	Worcester
Worcester	James A. Lidgate
Charles B. Curtis	Worcester
Worcester	Catherine M. Maloney
William C. Daniels	<i>State Normal School</i>
<i>B.S., Hobart College</i>	Worcester
Worcester	Francis J. McGrail
Marceline J. Darling	Worcester
Worcester	William J. McKinley
Robert J. Donnellan	Worcester
Oxford	Thomas P. McKeon
George T. Donohue	Worcester
Worcester	James E. McMahon
Harold W. Eaton	<i>A.B., Dartmouth College</i>
Worcester	Worcester
Theodore R. Edson	Robert A. McNamara
<i>B.C.S., Northeastern University</i>	Worcester
Worcester	Myer Mintz
Hildred H. Edstrom	Worcester
Worcester	Francis M. Olmstead
Michael J. Essex	Worcester
Worcester	George H. O'Loughlin
Cornelius F. Fitzgerald	Worcester
Worcester	Erick E. Olund
Joseph C. Foster	Worcester
Leominster	Hamilton C. Paine
Nest Freedberg	Worcester
Worcester	Sherwood F. Prescott
Erwin M. C. French	Worcester
Worcester	Charles H. Richards
Fredrick C. Gage	Worcester
Worcester	Edward Roberge
Job Goldstein	<i>Assumption College</i>
Worcester	Worcester

## *Northeastern University*

Jordan Sandman  
Worcester  
Ellen M. Schofield  
*State Normal School*  
*Harvard University*  
*Clark College*  
Worcester  
Herbert C. Sheppard  
*B.C.S., Northeastern University*  
Worcester  
Richard S. Smith  
Worcester  
Robert I. Smith  
*Boston University*  
Worcester  
John C. Sullivan  
Clinton

Frank Travers  
Worcester  
Donald Walker  
Worcester  
Burton A. Wentzell  
Worcester  
Carl H. Westin  
Worcester  
Francis J. W. Wheeler  
*Clark University*  
*Northeastern University*  
Worcester  
Ernest W. Woods  
Leicester  
Paul P. Zambarano  
Worcester

*School of Law*

SPRINGFIELD

CLASS OF 1926

Joseph H. Cullen  
Springfield  
Michael J. Delaney  
Springfield  
Loretta F. Feighery  
Springfield  
Abraham Greenspan  
*B.S., in Econ., University of Pennsylvania*  
Holyoke

Benjamin Klempner  
Springfield  
John E. Maroney  
Springfield  
Jacob J. Shapiro  
Springfield  
Celia Wolkoff  
Holyoke

CLASS OF 1927

Ralph A. Armstrong  
*A.B., Brown University*  
Chicopee Falls  
Harold P. Brown  
*Brown University*  
Longmeadow  
Carlos B. Ellis, Jr.  
*B.S., Wesleyan University*  
Springfield  
Anna M. Glickman  
Springfield  
Robert T. Hanfin  
*A.B., Holy Cross College*  
Springfield  
Melvin J. Hoffman  
Hartford, Conn.  
Andrew A. Hopkins  
Chicopee Falls  
Ralph C. Jandreau  
Thompsonville, Conn.  
Edward T. Newell  
Holyoke  
John D. O'Brien  
Springfield  
Charles H. Palmer  
West Springfield

Arthur Paroshinsky  
Springfield  
Charles Ratner  
*Mass. Agricultural College*  
Springfield  
Daisy Selwitz  
Springfield  
Walter M. T. Shea  
Chicopee Falls  
Rodney C. Steele  
Springfield  
William A. Sullivan  
Palmer  
Kurt R. Vogel  
Springfield  
Alexander B. Way  
Springfield  
Ruel W. Whitcomb  
*A.B., University of Maine*  
Springfield  
Theodore A. Wiel  
*American International College*  
Springfield  
Archie Williams  
*Mass. Agricultural College*  
Westfield

CLASS OF 1928

William L. Anthes  
Springfield  
Ralph W. Bennet  
Indian Orchard  
Leo O. Blanchard  
Springfield  
James P. Boland  
Springfield  
James C. Byrnes  
Springfield  
Ralph V. Clampit  
Springfield  
Robert J. Conley  
*Georgetown University*  
Springfield  
Ray P. Dunning  
*A.B., Harvard University*  
Springfield  
Margaret Eden  
Springfield  
Paul S. Emmons  
Springfield  
Lawrence L. D. Friedman  
*B.C.S., New York University*  
Springfield

Margaret E. Ganley  
Springfield  
Guy M. Gray  
*D.D.S., Philadelphia Dental College*  
Greenfield  
John B. Greata  
Springfield  
James W. Hayden  
Thompsonville, Conn.  
Maurice J. Hoar  
Chicopee Falls  
Henry O. Holley  
*A.B., Dartmouth College*  
Monson  
Stanley J. Javorski  
Thompsonville, Conn.  
Paul Jed  
Holyoke  
Elva J. Litch  
Springfield  
Leon L. McKinney  
Thompsonville, Conn.  
George E. Matthews  
Springfield

## Northeastern University

Rexford D. Matthews  
Springfield  
David B. Miller  
Ludlow  
George E. Murphy, Jr.  
Wilbraham  
James E. Murphy  
Springfield  
Samuel Sahpiro  
*Tufts College*  
Springfield  
Philip E. Sakowitz  
Springfield  
Semneh H. Sanjiyan  
Springfield  
Gregory M. Sapsuzian, Jr.  
Thompsonville, Conn.

Roy E. Simmons  
*U.S. Naval School*  
Easthampton  
Bernard T. J. Smyth  
*A.B., Holy Cross College*  
Springfield  
Robert E. Stratton  
Springfield  
Walter C. Sullivan  
Springfield  
Harry H. Sussman  
Springfield  
Ira C. Taylor  
Northampton  
Donald S. Tufts  
Springfield  
Thomas P. Walsh, Jr.  
Springfield

### CLASS OF 1929

Herman J. Berk  
Springfield  
Robert C. Browning  
Springfield  
Eleanor A. Buckley  
Springfield  
John F. Burke  
Westfield  
Leonard G. Burke  
Thompsonville, Conn.  
Durand C. Burnett  
Bedford, Va.  
Matthew J. Clark, Jr.  
*Holy Cross College*  
Springfield  
Raymond E. Clark  
Springfield  
Charles J. Cleary  
Woronoco  
Milton Cohen  
Thompsonville, Conn.  
Ruben Cohen  
Springfield  
Homer W. Cote  
Pittsfield  
John T. Crane  
Florence  
Elizabeth P. Crawford  
Agawam  
David B. Daly  
*Middlebury College*  
Springfield  
John L. Davine  
Springfield  
Walter Dearnley  
Agawam  
Thomas Epstein  
Holyoke  
Wralf B. Farnsworth  
West Springfield  
Mildred S. Fein  
Springfield  
Chester K. Field  
Somers, Conn.  
Harry H. Fisher  
*New York University*  
Springfield  
Samuel K. Freedman  
Springfield  
John F. Gaughan  
Holyoke  
Arthur Greaves  
*Providence College*  
Thompsonville, Conn.

William H. Haskell  
Springfield  
William W. Hayden  
*Clark University*  
Springfield  
Frank B. Henchy  
Westfield  
Harvey J. L. Hewitt  
Holyoke  
Saul Kimball  
Westfield  
Jacob B. Kushner  
*B.S., Harvard University*  
Springfield  
Gaspar LaBella  
Agawam  
Eveline M. Litchfield  
Northampton  
Isabelle Livingston  
Greenfield  
Catherine I. Lyneh  
Springfield  
Edward J. McMahon  
*Holy Cross College*  
Westfield  
David J. Manning  
Springfield  
Paul Manning  
*D.M.S., Harvard University*  
Springfield  
Moses K. Mazer  
*A.B., Harvard University*  
Springfield  
Armand O. Metivier  
Chicopee  
William R. Murray  
Springfield  
John B. E. Nowak  
Chicopee Falls  
Edward S. O'Donnell  
*B.S., in Econ., University of Pennsylvania*  
Holyoke  
John J. O'Donnell  
Holyoke  
Katherine O'Donnell  
Holyoke  
William J. O'Sullivan  
Springfield  
Albert Pallot  
Springfield  
Alexander B. Rubin  
*Connecticut State College*  
Springfield



## *School of Law*

Francis T. Scanlon  
*Holy Cross College*  
Holyoke

John W. Sliwa  
Northampton

Allen P. Spencer  
Springfield

Lionel T. Therrien  
Holyoke

George Vinick  
Springfield

Frank J. Whittaker  
Chicopee

Russell Whitney  
*B.S., Dartmouth College*  
Springfield

Maurice P. Winniman  
West Springfield

### STUDENTS WITH IRREGULAR SCHEDULES

Wendell H. Berry  
*A.B., Bowdoin College*  
*M.B.A., Harvard University*  
Springfield

George G. Breed  
Springfield  
Leo D. Glynn  
Springfield

# Northeastern University

## PROVIDENCE

### CLASS OF 1926

John J. Cunningham  
Blackstone, Mass.  
Frank H. Flint  
A.B., *University of Buffalo*  
Barrington, R. I.  
Edgar A. Levesque  
Fall River, Mass.

Antonio Marcaccio  
Providence, R. I.  
William Ricci  
Providence, R. I.  
Wilfred V. Sumpter  
Warren, R. I.

### CLASS OF 1927

Francis C. Carney  
Providence, R. I.  
John A. Donahue  
Providence, R. I.  
Clifton R. Entwistle  
*Brown University*  
Auburn, R. I.  
Arthur E. Erickson  
Providence, R. I.  
Oreal Grossman  
Pawtucket, R. I.  
James L. Hanley  
A.B., *Boston College*  
A.M., *Brown University*  
Providence, R. I.

Ambrose J. Kinion  
*Brown University*  
Pawtucket, R. I.  
William Law  
B.S., *Worcester Polytechnic Institute*  
Edgewood, R. I.  
Herbert F. Madden  
Fall River, Mass.  
Daniel V. McOsker  
Providence, R. I.  
Lewis E. O'Connor  
Pawtucket, R. I.  
Ubaldo Pesaturo  
Providence, R. I.  
Lewis E. O'Connor  
Pawtucket, R. I.

### CLASS OF 1928

George J. Allaire  
*Rhode Island State College*  
Seekonk, Mass.  
Nushan Asadorian  
A.B., *Euphrates College, Harport,*  
*Armenia*  
Providence, R. I.  
John M. Brogden  
*Brown University*  
Providence, R. I.  
William M. Connell  
Ph.B., *Brown University*  
Pawtucket, R. I.  
Harold A. Connor  
Providence, R. I.  
Edward J. Coogan  
Pawtucket, R. I.  
Ettore Costazon  
Providence, R. I.  
Francis L. Cummings  
*Rhode Island State College*  
Cranston, R. I.  
Joseph W. Davis, Jr.  
Providence, R. I.  
James V. DelNero  
Providence, R. I.  
Rene H. A. Devos  
Providence, R. I.  
Joseph J. Dudzik  
Providence, R. I.  
H. David Falk  
Providence, R. I.  
Frederick L. Franklin, Jr.  
Providence, R. I.  
Albert E. Godfrey  
B.C.S., *Northeastern University*  
Providence, R. I.

James R. I. Hagerty  
Providence, R. I.  
John Hanlon  
*Boston University*  
Attleboro, Mass.  
Harry D. Horton  
*Guilford College*  
Cranston, R. I.  
Howard T. Moffett  
*St. Andrews College*  
Providence, R. I.  
James A. Murtaugh  
Providence, R. I.  
John M. O'Connor  
*St. Viator College*  
*Georgetown University*  
Providence, R. I.  
Frederick J. O'Donnell  
Providence, R. I.  
Joseph P. O'Kane  
A.B., *Sacred Heart College*  
Pawtucket, R. I.  
John B. O'Rourke  
Woonsocket, R. I.  
George D. Ostrow  
Ph.G., *Athany College of Pharmacy*  
Providence, R. I.  
John J. F. Pietraszek  
Fall River, Mass.  
Frank F. Pinkos  
Warren, R. I.  
Walden F. Poole  
East Providence, R. I.  
Henri Proulx  
A.B., *Assumption College*  
Attleboro, Mass.

## School of Law

William Sequino  
Warren, R. I.  
Harry Sholovitz  
Providence, R. I.  
Stephen J. Siegl  
Apponaug, R. I.

David H. Slavit  
Conimicut, R. I.  
John C. Tanner  
Cranston, R. I.  
Frank E. Tenaglia  
Providence, R. I.

### CLASS OF 1929

Aram A. Arabian  
Providence, R. I.  
Harold C. Arcaro  
Providence, R. I.  
Ernest M. Barnes  
Wickford, R. I.  
Rudolph M. Bassing  
Bristol, R. I.  
Fred Brosco  
Providence, R. I.  
Joseph W. Butler  
Providence, R. I.  
George Carroll  
Providence, R. I.  
Hezekiah W. Church  
Bristol, R. I.  
Henry Conyers  
*Ph.B., Brown University*  
Seekonk, Mass.  
George K. Demopulos  
Providence, R. I.  
Edward C. Drinkwater  
*B.C.S., Northeastern University*  
Auburn, R. I.  
Thomas F. Farrelly  
Providence, R. I.  
Leo F. Gilmore  
*Northeastern University*  
Lonsdale, R. I.  
Schulim A. Goldstein  
Providence, R. I.  
Jesse Gray  
Seekonk, Mass.  
Francis E. Greene  
Providence, R. I.  
Wilfred L. Hagerty  
*Girard College*  
East Greenwich, R. I.  
John S. Healy  
Providence, R. I.  
Joseph J. Higgins  
Providence, R. I.  
Talbot A. Holland  
Westerly, R. I.  
Alexander Jacobson  
Edgewood, R. I.  
Thomas A. Jennings  
Cranston, R. I.  
Edward Kasparian  
*Ph.G., Rhode Island College of  
Pharmacy*  
Providence, R. I.  
Harold W. Kelly  
*B.C.E., Northeastern University*  
Providence, R. I.

Richard W. Littlefield  
*Brown University*  
*Rhode Island State College*  
Natick, R. I.  
Leo H. J. McCarthy  
*A.B., St. Mary's College*  
Riverside, R. I.  
Matthew M. McCormick  
*A.B., Providence College*  
Providence, R. I.  
Thomas P. McCormick  
Providence, R. I.  
Joseph F. McDonough  
*A.B., Holy Cross College*  
Fall River, Mass.  
Paul V. McDonough  
*A.B., Holy Cross College*  
Fall River, Mass.  
Charles R. Messier  
Central Falls, R. I.  
John H. Nassar  
Warren, R. I.  
William L. Nolan  
Providence, R. I.  
Joseph M. A. Parrillo  
Providence, R. I.  
Harold J. Peloquin  
*Providence College*  
*Georgetown University*  
North Providence, R. I.  
Nicholas Picchione  
*B.C.S., Northeastern University*  
Providence, R. I.  
Pasco L. Placella  
Edgewood, R. I.  
Hartley F. Roberts  
*A.B., Brown University*  
Providence, R. I.  
Charles H. Ryan  
Providence, R. I.  
Earl V. Schriever  
North Attleboro, Mass.  
Martin J. Shorr  
Woonsocket, R. I.  
Richard D. St. Angelo  
Providence, R. I.  
Henry R. Sullivan  
Providence, R. I.  
George F. Whalen  
Providence, R. I.  
Norman H. Whitehead  
*B.S., Brown University*  
Providence, R. I.  
Joseph Zelano  
Providence, R. I.

### STUDENTS WITH IRREGULAR SCHEDULES

Robert Brown  
Providence, R. I.  
Alexander Chmielewski  
Providence, R. I.  
Clement Claflin  
Providence, R. I.  
Alfred A. Clark  
Newport, R. I.  
Dawson Ditt  
Saylesville, R. I.

Walter Johnson  
Cranston, R. I.  
Jean M. Legris  
West Warwick, R. I.  
Adelard L. Soucy  
Woonsocket, R. I.  
A. P. Vadeboncoeur  
Woonsocket, R. I.

# Northeastern University

## COLLEGES REPRESENTED IN THE STUDENT BODY

Boston University.....	71	Framingham Normal School.....	1
Harvard College.....	63	George Washington University.....	1
Northeastern University.....	58	Girard College.....	1
Boston College.....	33	Gordon Bible College.....	1
Bentley School of Accounting and Finance.....	19	Grand View Normal Institute.....	1
Tufts College.....	19	Greek National Lyceum.....	1
Holy Cross College.....	16	Guilford College.....	1
Brown University.....	15	Hampton Institute.....	1
Dartmouth College.....	12	Hiwassee College.....	1
Mass. Institute of Technology.....	10	Hobart College.....	1
Mass. College of Pharmacy.....	8	Hunter College.....	1
University of Maine.....	7	Imperial Medical Academy.....	1
Bowdoin College.....	6	King's University.....	1
Clark University.....	6	Lowell Textile School.....	1
Georgetown University.....	6	Macdonald Agricultural College.....	1
Rhode Island State College.....	6	Middlebury College.....	1
New York University.....	5	Milwaukee State Normal School.....	1
Boston Normal School.....	4	Montreal Normal School.....	1
Canisius College.....	4	Monument Nationale, Greece.....	1
Mass. Agricultural College.....	4	Naples University.....	1
Providence College.....	4	National & Capodistrian Universities, Athens.....	1
Yale University.....	4	Normal School, Italy.....	1
Catholic University.....	3	Norwich University.....	1
Lowell Institute.....	3	Park College, Parkeville, Mo.....	1
University of Pennsylvania.....	3	Philadelphia Dental College.....	1
Worcester Polytechnic Institute.....	3	Roanoke College.....	1
Assumption College.....	2	Sacred Heart College.....	1
Bates College.....	2	Smith College.....	1
Bristol County Agricultural College.....	2	St. Andrew's College.....	1
Columbia University.....	2	St. Thomas College.....	1
Jackson College.....	2	St. Viator College.....	1
State Normal School.....	2	Syracuse University.....	1
St. Mary's College.....	2	Union College.....	1
University of Michigan.....	2	University of Arizona.....	1
Wesleyan University.....	2	University of Buffalo.....	1
Albany College of Pharmacy.....	1	University of Kentucky.....	1
American International College.....	1	University of New Hampshire.....	1
Bridgewater Normal School.....	1	University of Notre Dame.....	1
City College of Law & Finance, St. Louis.....	1	University of Tennessee.....	1
City College of New York.....	1	University of Virginia.....	1
Clark University.....	1	United States Naval Academy.....	1
Colby College.....	1	Valparaiso University.....	1
Columbia College of Osteopathy.....	1	Vermont University.....	1
Columbus University.....	1	Wheaton College.....	1
Connecticut State College.....	1		
Dalhousie University.....	1		467
Euphrates College.....	1	Duplicates.....	13
Fordham University.....	1		454

*School of Law*

SUMMARY OF STUDENT BODY

BOSTON

Class of 1926	147	
Class of 1927	229	
Class of 1928	308	
Class of 1929	433	
Students with Irregular Schedules	65	
	<hr/>	Total 1,182

WORCESTER

Class of 1926	14	
Class of 1927	22	
Class of 1928	29	
Class of 1929	61	
	<hr/>	Total 126

SPRINGFIELD

Class of 1926	8	
Class of 1927	23	
Class of 1928	38	
Class of 1929	56	
Students with Irregular Schedules	3	
	<hr/>	Total 128

PROVIDENCE

Class of 1926	6	
Class of 1927	13	
Class of 1928	36	
Class of 1929	46	
Students with Irregular Schedules	9	
	<hr/>	Total 110

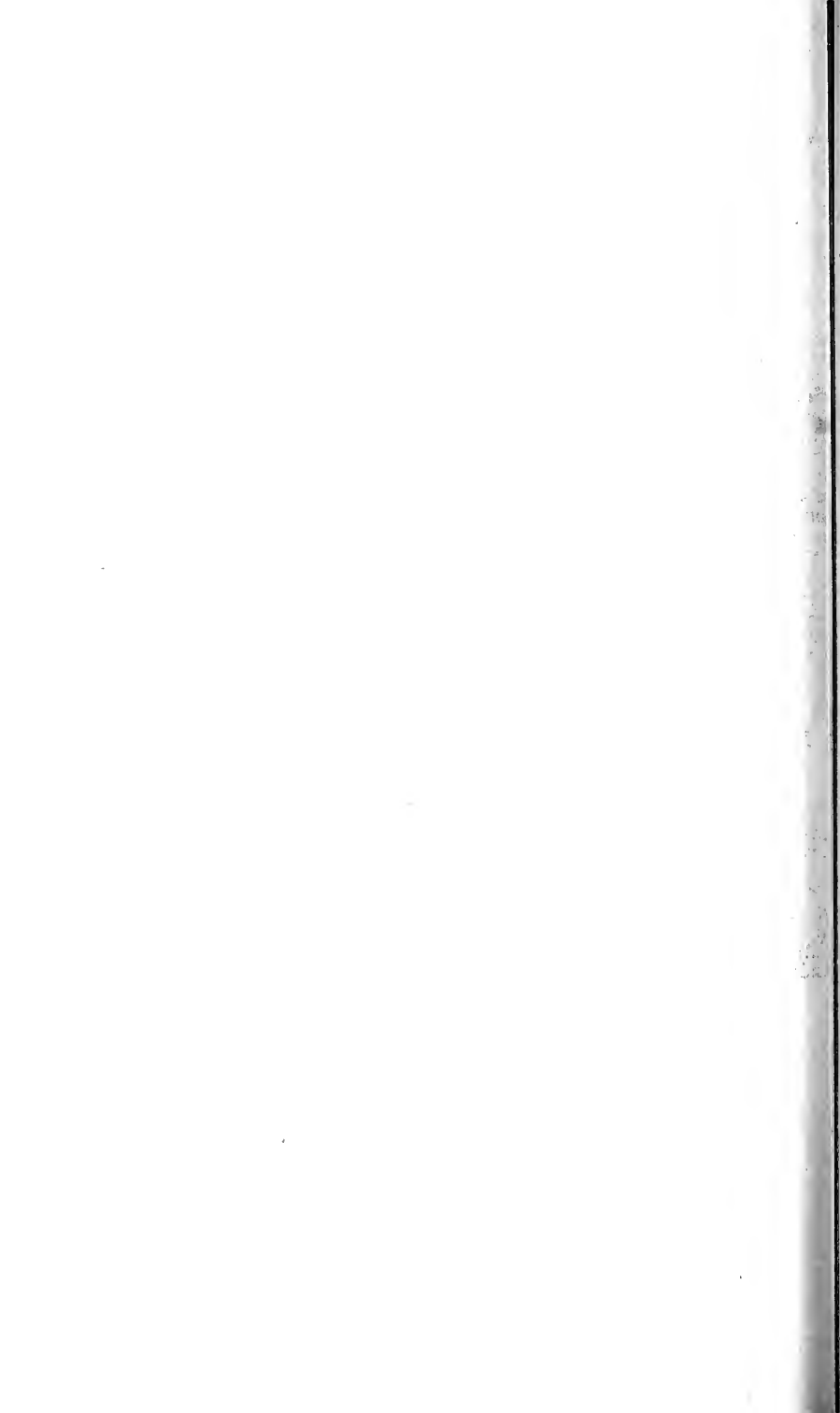
---

Grand Total 1,546

# INDEX

Administrative Regulations . . . . .	25-33
Attendance upon lectures . . . . .	25
Discipline . . . . .	33
Examinations . . . . .	26-27
Honors . . . . .	30
Marks . . . . .	29
Period of attendance . . . . .	26
Promotion . . . . .	29-30
Registration . . . . .	27
Requirements for the Degree . . . . .	30
Special Examinations or Tests . . . . .	28
Tests . . . . .	28
Tuition and other Fees . . . . .	31-32
Withdrawals and Refunds . . . . .	32-33
Admission Requirements . . . . .	22-23
Regular . . . . .	22
Special . . . . .	22
Advanced Standing . . . . .	22
Admission of Women . . . . .	22
Advanced Standing . . . . .	22
Advisory Boards . . . . .	
Worcester Division . . . . .	
Springfield Division . . . . .	
Providence Division . . . . .	
Alumni Associations . . . . .	51-52
Boston . . . . .	51
Springfield . . . . .	52
Providence . . . . .	52
Application for Admission . . . . .	2
Application Fee . . . . .	3
Attendance upon Lectures . . . . .	2
Board of Governors . . . . .	
Board of Trustees . . . . .	
Books . . . . .	4
Buildings . . . . .	4
Calendar . . . . .	
Classrooms . . . . .	4
Committees . . . . .	1
Committee on Administration . . . . .	1
Committee on Admission . . . . .	1
Divisional Committee . . . . .	1
Dormitories . . . . .	1
Discipline . . . . .	3
Educational Committee in Divisions . . . . .	
Elective Courses . . . . .	4
Examinations . . . . .	26-27
Executive Council . . . . .	
Faculty . . . . .	6-1
Founding of the School . . . . .	13-14-1
General Officers of Administration . . . . .	
Heads of Schools . . . . .	
Historical Sketch . . . . .	
Honors . . . . .	3
Incorporation . . . . .	1

Law Libraries .....	18-49
Boston .....	48
Worcester .....	48
Springfield .....	49
Providence .....	49
Local Officers of Administration .....	6-10
Boston .....	6-7
Worcester .....	8
Springfield .....	9
Providence .....	10
Larks .....	29
Method of Instruction .....	19-21
Moot Court .....	46
Office Hours .....	2
Organization of the School .....	16
Outline of Courses .....	34-45
Period of Attendance .....	26
Physical Culture .....	50
Program .....	17
Promotion .....	29
Quizzes .....	45
Recreative Opportunities .....	50
Reduced Gymnasium Rates .....	50
Registration .....	25
Religious Activities .....	51
Requirements for the Degree .....	30
Social Life of the School .....	50
Special Examinations or Tests .....	28
Special Lectures .....	16
Staff of Instruction .....	6
Boston .....	6-7
Worcester .....	8
Springfield .....	9
Providence .....	10
Student Body .....	18
Student Lists .....	53-79
Study of Law .....	12
Successful Career .....	17
Tests .....	28
Test Schedules .....	28
Tuition and other Fees .....	31-32
Vocational Guidance .....	51
Withdrawals and Refunds .....	32-33





316 Huntington Avenue, Boston, Mass.

(A fee of \$5.00 must accompany this application)

Northeastern University,  
School of Law,  
316 Huntington Avenue,  
*To the Dean:*

Names and addresses of four mature, responsible persons other than students or relatives to whom the University may direct inquiries concerning you:

If admitted to the School do you plan to complete the four-year curriculum and qualify for the degree?

If not for the degree, what special courses do you desire?

Do you desire to study law for the purpose of entering the practice?

If not, for what reason?

Are you a citizen of the United States?

Have you ever been complained of, indicted for, or convicted of any violation of law? If so, state facts fully, including disposition of each charge and give reference to the court record or supply a copy thereof.

Signature of Applicant.

Approved for admission as a regular, conditioned, special student:

Date

Dean.

# NORTHEASTERN UNIVERSITY

## DAY SCHOOLS

### SCHOOL OF ENGINEERING

Four-year courses in Civil, Mechanical, Electrical, Chemical, and Administrative Engineering, leading to the degrees of Bachelor of Civil, Mechanical, Electrical, Chemical, and Administrative Engineering. Conducted in co-operation with engineering firms. Students earn while they learn. Work conducted at Boston.

### SCHOOL OF BUSINESS ADMINISTRATION

Four-year course in Business Administration leading to the degree of Bachelor of Business Administration. Students may specialize in Industrial Management, Marketing, Finance, Accounting, and Sales Management. A two-year course leading to a Junior Certificate. Conducted on the Co-operative plan beginning in September, 1927. Work conducted at Boston.

## EVENING SCHOOLS

### SCHOOL OF LAW

(Co-educational)

Four-year course leading to the degree of Bachelor of Laws. Preparation for bar examinations and practice. High scholastic standards. The graduates of the school have been outstandingly successful in the bar examinations and in practice of law and in many fields of business. Work conducted at Boston, in Divisions at Worcester, Springfield, and Providence.

### SCHOOL OF COMMERCE AND FINANCE

(Co-educational)

Two-year courses in Professional Accounting and Business Administration, with specialization in Finance, Marketing, Management, and other fields, leading to the degrees of Bachelor and Master of Commercial Science. Special one and four-year courses for those desiring intensive specialization. Work conducted at Boston, and in the Divisions at Worcester, Springfield, and Providence.

### NON-COLLEGIATE SCHOOLS

#### EVENING POLYTECHNIC SCHOOL

Three-year courses offered in the Evening Polytechnic School lead to a diploma in Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemistry or Structural Engineering. The work offered in these courses, though not as extensive as that leading to a degree, meets standard requirements. Students are trained for positions of trust and responsibility.

#### NORTHEASTERN PREPARATORY SCHOOL

Courses in usual high school subjects leading to a diploma. Three sixteen-week terms each year. It is possible for students to meet college entrance requirements in from three to five years. Work conducted at Boston.

#### NORTHEASTERN AUTOMOTIVE SCHOOL

Courses in all phases of the automotive industry with special instruction for owners, salesmen, mechanics, and chauffeurs. Classes are conducted both in the morning and evening.

#### DEPARTMENT OF UNIVERSITY EXTENSION

A diversified program of short intensive courses in Blueprint Reading, Public Speaking, Practical Trade Mathematics, Mechanical Drawing, Estimating, Civil Service, English for Educated Foreigners, etc.

For further information concerning any of the above schools, address

NORTHEASTERN UNIVERSITY

316 Huntington Avenue, Boston, Massachusetts



# Northeastern University

## SCHOOL OF COMMERCE *and* FINANCE

(EVENING SESSIONS)



CO-EDUCATIONAL

*Nineteenth Year*

**1926-27**

Boston Young Men's Christian Association  
316 Huntington Avenue  
Boston, Massachusetts



# NORTHEASTERN UNIVERSITY

## SCHOOL OF COMMERCE AND FINANCE

### EVENING SESSIONS



Northeastern University of the Boston Young Men's Christian Association  
is incorporated under the laws of Massachusetts and is located in  
Boston. Divisions are conducted in the Young Men's  
Christian Associations at Worcester, Springfield  
and Providence

# CALENDAR, 1926-1927

1926	September 7-17	Examinations for Entrance, for Removal of Conditions, and Advanced Standing.
	September 13-17	Senior, Junior and Sophomore Classes begin the Divisions.
	September 20-24	Freshman classes begin in the Divisions
	September 27 } to October 1 }	Classes begin in Boston
	October 12	Columbus Day (Classes omitted in Massachusetts)
	November 25	Thanksgiving Day (Classes omitted)
	December 18-26	Christmas Recess in Boston, Providence and Worcester Divisions
	December 18 } to January 2 }	Christmas Recess in Springfield Division
1927	January 17-28	Final examinations in first semester half courses
	January 24-31	Second semester classes begin.
	February 22	Washington's Birthday (Classes omitted)
	April 1	Last date for filing application for Bachelor's degree and payment of the graduation fee.
	April 19	Patriots' Day (Classes omitted in Massachusetts)
	May 1	Last date for filing application for Master's degree and the subject and outline of thesis candidates for 1928.
	May 16-27	Final examination period.
	June 5	Baccalaureate Service at Springfield
	June 8	Commencement Exercises at Springfield
	June 12	Baccalaureate Service at Worcester and Providence
	June 14	Commencement Exercises at Worcester
	June 17	Commencement Exercises at Providence
	June 19	Baccalaureate Service at Boston.
	June 20	Commencement Exercises at Boston

Note: For tuition payment dates see page 29

## OFFICE HOURS

(Boston)

August 16-June 30

Daily (except Saturdays and Sundays), 8.45 a.m.-5.00 p.m.; 6.30 p.m.-9.30 p.m.

Saturdays, 8.45 a.m.-1.00 p.m.

July 1-August 15

Daily (except Saturdays and Sundays), 9.00 a.m.-4.00 p.m.

Saturdays, 9.00 a.m.-12.00 noon.

Mondays, 6.30 p.m.-9.00 p.m.



# NORTHEASTERN UNIVERSITY

## *Trustees*

ARTHUR STODDARD JOHNSON, *Chairman*

ALBERT HARMON CURTIS, *Vice-Chairman*

GALEN DAVID LIGHT, *Secretary*

WILLIAM EDWARD ADAMS	GEORGE CABOT LEE
FRED HARLOW AVERY	HENRY GARDNER LORD
WASHINGTON IRVING BULLARD	ERNEST LOVERING
WILLIAM CONVERSE CHICK	FRANCIS POPE LUCE
MILTON LEE CROCKER	WILLIAM EVERETT MACURDA
LEWIS ABBOTT CROSSETT	MILTON CRAWFORD MAPES
ROBERT GRAY DODGE	EDWARD FULLER MINER
HENRY BRADLEE FENNO	ARTHUR PERRY, JR.
BENJAMIN A. FRANKLIN	THOMAS HASTING RUSSELL
FRANKLIN WILE GANSE	SABIN POND SANGER
BENJAMIN WRIGHT GUERNSEY	CHARLES PECK SISSON
JOHN HENRY HARWOOD	FRANK PALMER SPEARE
ARTHUR LEE	FRANCIS ROBERT CARNEGIE STEELE

## *Board of Governors*

ALBERT HARMON CURTIS, *Chairman*

GALEN DAVID LIGHT, *Secretary*

WILLIAM EDWARD ADAMS	ROBERT GRAY DODGE
JOHN SAMUEL ALLEN	ARTHUR STODDARD JOHNSON
WILLIAM CONVERSE CHICK	WILLIAM EVERETT MACURDA
MILTON LEE CROCKER	FRANK PALMER SPEARE
ALBERT BROWNE CURTIS	FRANCIS ROBERT CARNEGIE STEELE

*General Officers of the University  
and the  
Executive Council*

FRANK PALMER SPEARE, LL.B., M.H.  
*President of the University*

GALEN DAVID LIGHT, A.B.  
*Secretary and Comptroller of the University*

CARL STEPHENS ELL, A.B., M.S.  
*Vice-President of the University*

EVERETT AVERY CHURCHILL, A.B., Ed.D.  
*Vice-President of the University*

*Heads of Schools*

COLLEGIATE SCHOOLS

SCHOOL OF ENGINEERING  
Carl Stephens Ell, A.B., M.S., *Dean*

SCHOOL OF BUSINESS ADMINISTRATION  
Turner Flowers Garner, A.M., Ed.M., *Dean*

SCHOOL OF LAW  
Everett Avery Churchill, A.B., Ed. D., *Dean*

SCHOOL OF COMMERCE AND FINANCE  
Carl David Smith, B.H., Ed.M., *Dean*

NON-COLLEGIATE SCHOOLS

EVENING POLYTECHNIC SCHOOL  
Thomas Edward Penard, S.B., *Associate Dean*

NORTHEASTERN PREPARATORY SCHOOL  
James Wallace Lees, A.M., *Principal*

NORTHEASTERN AUTOMOTIVE SCHOOL  
Howard P. LeFavour, *Principal*

DEPARTMENT OF UNIVERSITY EXTENSION  
James Wallace Lees, A.M., *Director*

# The SCHOOL of COMMERCE and FINANCE

## *General Officers of Administration*

FRANK PALMER SPEARE, M.H., LL.B., *President of the University*

GALEN DAVID LIGHT, A.B., *Secretary of the University*

EVERETT AVERY CHUBCHILL, A.B., Ed.D., *Vice-President*

CARL DAVID SMITH, B.H., Ed.M., *Dean*

## BOSTON

## *Local Officers of Administration*

CARL DAVID SMITH, B.H., Ed.M., *Dean*

## *Staff of Instruction*

SA SAMUEL ALLEN, C.P.A., *Review Quiz*

LL.B. Northeastern; LL.M. Boston University

Member of firm of Curtin, Poole, Allen and Cooch

RTHUR WILLIS BLACKMAN, *Law of Contracts and Business Associations*

A.B., LL.B. Yale

N. Y., N.H. & H. R.R. Co. Attorney-at-Law

ESTER FRANK BLAKE, C.P.A. *Review Quiz, Auditing*

C.P.A. (Mass.) Of the Staff of Lybrand, Ross Bros. and Montgomery

OBERT BRUCE, *Advanced Accounting, Specialized Accounting*

B.C.S., M.C.S. Northeastern

Professor in Accounting Northeastern University

ERCIVAL FLOCK BRUNDAGE, C.P.A. *Problems*

A.B. Harvard; C.P.A. (Mass., N. J. and N. Y.)

Of the Staff of Price Waterhouse & Co.

HARLES ALBERT CEDERBERG, *Elements of Accounting*

Instructor, Boston Clerical School

DMUND RUSSELL DAVIS, *Investments*

A.B., A.M. Harvard

Manager of Statistical Department, First National Corporation

HN VICTOR DAY, *Credits and Collections*

Assistant Treasurer and Director, Smith Patterson Company

EO THOMAS FOSTER, *Income Tax Accounting*

A.B. Holy Cross; A.M. Harvard

Instructor and Junior Master Boston High School of Commerce

AVID GREER, *Law of Commercial Papers*

LL.B. Northeastern

Johnson & North, Attorneys-at-Law

LIFTON WILLIAM GREGG, C.P.A. *Review Quiz*

B.C.S. Northeastern; C.P.A. (Mass.)

Of the Staff of Lybrand, Ross Bros. & Montgomery

EOERGE HOFFACKER, *Elements of Accounting*

B.C.S. Northeastern

Head Instructor Boston Clerical School

HILIP WOODBURY JOHNSON, *Advanced Accounting Problems*

B.C.S. Northeastern; C.P.A. (Mass.)

Public Accountant

## *Staff of Instruction—Continued*

- WILLIAM MATTOX, *Business Writing and Reports*  
Advertising Manager, Walworth Manufacturing Company
- FREDERICK DARRELL MOORE, *English for Business*  
A.B. Ohio University; M.B.A. Harvard
- JOSEPH EARL PERRY, *Law of Commercial Papers*  
A.B. Williams; LL.B. Harvard; B.B.A. Boston University  
Member of Firm of Perry & Saunders, Attorneys-at-Law
- MATTHEW POROSKY, *Management Problems, Industrial Management*  
B.S. Massachusetts Institute of Technology  
Chairman of Factory Management Committee, Holtzer-Cabot Electric Company
- J. M. PULLMAN, *Cost Accounting*  
B.B.A. Boston University, C.P.A. (Mass.)  
Accountant, J. M. Pullman & Co.
- ROYAL ARLINGTON ROBERTS, *Distribution Problems, Salesmanship, Advertising Principles*  
B.A. University of Wisconsin; M.B.A. Harvard  
Associate Professor Northeastern University
- ERWIN HASKELL SCHIELL, *Business Organization and Management*  
R.S. Massachusetts Institute of Technology  
Assistant Professor Massachusetts Institute of Technology and Harvard University
- HAROLD HAZEN THURLBY, *Management Problems*  
A.B. University of Michigan; M.B.A. Harvard  
Assistant Dean Harvard University, Graduate School of Business Administration

---

ROY MITCHELL LAWSON, *Registrar*  
FLORENCE ELIZABETH OTTER, *Secretary*  
BEATRICE LOUISA HEWEY, *Recorder*  
RUTH GERALDINE SPOFFORD, *Bookkeeper*

---

CAROLYN ESTHER HENDERSON, S.B.  
*Assistant Secretary of the University*

J. KENNETH STEVENSON  
Bursar of the University  
MYRA EDNA WHITE  
Librarian of the University

## *Special Lecturers*

- |   |  |
|---|--|
| F. ALEXANDER CHANDLER<br>President, Chandler & Farquhar Company                               | HOMER N. SWEET<br>Member of the Firm, Lybrand, Ross & Montgomery                 |
| J. CHESTER CRANDELL<br>Member of the Firm, Scovell, Wellington & Company                      | DANA S. SYLVESTER<br>Executive Secretary, Massachusetts Savings Bank Association |
| CHARLES R. GOW<br>President, The Gow Company, Inc.  | CHARLES R. WIERS<br>Vice-President, National Shawmut Bank, Boston                |
| HARRY L. HARDING<br>Manager, Advertising and Sales Promotion Departments, United Drug Company | RALPH B. WILSON<br>Vice-President, Babson Statistical Organization               |
| FRANK P. SPEARE<br>President, Northeastern University   | WALTER F. WYMAN<br>Sales Engineer, The Carter's Ink Company                      |

# WORCESTER

## *Local Officers of Administration*

WILLIAM ALBERT LOTZ, A.B., *Director*  
WILLIAM LEDYARD MITCHELL, *Associate Director*  
CHARLES EDWIN HUTCHINS, LL.B., *Associate Dean*

---

## *Staff of Instruction*

ALTER EUGENE BARNARD, *Business Law*  
A. B. Leland Stanford, LL.B., Northeastern  
Instructor in High School of Commerce

CHARLES ELBERT DISNEY, *Business English*  
A. M. Clark  
Instructor, High School of Commerce

EROLD LUTHER FENNER, *Business Finance, Money and Banking*  
A.B. Clark College  
Assistant Principal, North High School

CHARLES EDWIN HUTCHINS, *Business Law*  
LL.B. Lincoln Jefferson  
Instructor High School of Commerce

CHARLES HENRY JORDAN, *Advanced Accounting*  
B.S., A.M. New York University  
Instructor, High School of Commerce

EMER ATWOOD LUCAS, *Junior Accounting Problems, C.P.A. Problems*  
B.B.A. Boston University; C.P.A. (Mass.)  
Accountant, Jefferson Manufacturing Company

WILLIAM RALPH MOORE, *Marketing*  
B.S. Pennsylvania State  
Assistant Sales Manager, Norton Company

CYDE LINFIELD NEWELL, *Accounting*  
Accountant, Treadwell Electric Company

EROLD NICKERSON, *Business Administration*  
B.S. Worcester Polytechnic Institute  
Assistant to Superintendent, Crompton & Knowles Loom Works

HENRY CHARLES OBERIST, *System Building, Income Taxes*  
Accountant

JOHN WARREN ODLIN, *Advertising*

ALBERT PALMER, *Industrial Management*  
B.S., M.E. Harvard  
Assistant to Superintendent, Crompton & Knowles Loom Works

ROYD ABNER RAMSDELL, *Salesmanship*  
A.B. Clark College  
General Manager, Worcester Film Corporation

EROLD OLIVER SMITH, *Auditing*  
B.C.S. Northeastern  
Accountant, H. O. Smith & Co.

FREDERICK HENRY SNYDER, *Accounting*  
Accountant, Worcester Evening Post

PUL HENKING WILSON, *Managerial and Cost Accounting*  
Auditor, Graton & Knight Co.

WERNER CLARK WOOLEY, *Business Management Problems, Statistics*  
B.S. Agricultural College of Utah; M.B.A. Harvard  
Efficiency Engineer, Washburn Company

---

HELVIE CATHERINE YNGVE, *Registrar*

# SPRINGFIELD

## *Local Officers of Administration*

JOHN DOANE CHURCHILL, A.B., *Director*  
WENDELL HINDS BERRY, A.B., M.B.A., *Associate Director*  
GUY DOLPHUS MILLER, A.B., C.P.A. (Ind.), *Associate Dean*

---

## *Staff of Instruction*

LUTHER ANDERSON, *Business Administration*  
A.B., A.M., Ph.D. Yale  
Member of Staff of Kinney Insurance Agency

JAMES SYNG ARMSTRONG, *Management Problems*  
Lit.B. Princeton; M.B.A. Harvard  
Member of Staff of Hampden Glazed Paper & Card Co.

FRANK AUCHTER, *Commercial Law*  
LL.B. Northeastern; Attorney-at-Law

WENDELL HINDS BERRY, *Salesmanship*  
A.B. Bowdoin; M.B.A. Harvard;  
Associate Director, Northeastern University

DAVID HOLBROOK BROWN, *Commercial Law, Business Finance*  
A.B. Middlebury; LL.B. Boston University  
Instructor Central High School

WILLIAM ROBERTS CARLTON, *Accounting*  
Accountant, Federal Land Bank

JAMES WALTER CBOOK, *Marketing Problems*  
A.B. Oberlin; A.M. Amherst; Ph.D. Columbia  
Professor of Economics, Amherst College

JOSEPH CUSHING, *Auditing, Income Taxes, C.P.A. Problems*  
B.S. Dartmouth; C.P.A. (Mass.)  
Public Accountant

DONALD WALTER DAVIS, *Advertising*  
A.B. Bates  
Of the Staff of The Republican Publishing Company

LEONARD IRA HOUGHTON, *Specialized Accounting*  
B.H. International Y. M. C. A. College  
Member of the Staff of Joseph Cushing, Public Accountant

WILLIAM WARD JOHNSTON, *Junior Accounting Problems*  
M.C.S. Washington School of Accountancy  
C.P.A. (N. C., Ind., Mass.); Member of the Staff of Scovell Wellington & Co.

JOHN DANIEL KAPS, *Commercial Law*  
LL.B. Columbia; Attorney-at-Law

HARRY HARRIS KING, *Cost Accounting*  
B.S. Worcester Polytechnic Institute  
C.P.A. (Mass.); Accountant, Hayden Stone & Co

GUY DOLPHUS MILLER, *Commercial Law*  
A.B. Ohio University  
C.P.A. (Ind.); High School of Commerce

CHARLES THOMAS POWERS, *Accounting*  
A.B. Dartmouth; B.C.S. Northeastern  
Instructor in High School of Commerce

HORACE JACOBS RICE, *Commercial Law*  
B.S. Wesleyan; LL.B. Harvard  
Attorney-at-Law

CARBOLL WARD ROBINSON, *Business Reports, Business English, Personal Management*  
A.B. Clark  
Continuation School

## *Staff of Instruction—Continued*

GUSTUS HENRY SMITH, *Money and Banking*

A.B. Harvard

Instructor in High School of Commerce

NLEY OSCAR SMITH, *Advanced Accounting*

B.C.S. Northeastern

Instructor in High School of Commerce

MILTON TORREY, *Business English*

B.S. University of Pennsylvania

Member of Staff of Wilbraham Business Corporation

CHARD PEALE TOWNE, *Statistics*

A.B. Williams; M.B.A. Harvard

Member of Staff of National Blank Company, Holyoke

ALBERT CREIGHTON WALKER, *Accounting*

A.B. Harvard

Instructor, High School of Commerce

---

ETHEL LUELLA KENNEDY, *Registrar*

ELLA MAY HARVEY, *Recorder*

## PROVIDENCE

### *Local Officers of Administration*

LEO ROHE WALTER, A.B., *Director*

RALPH GODDARD WINTERBOTTOM, *Associate Director*

NORMAN STEPHEN TABER, A.B., *Associate Dean*

---

### *Staff of Instruction*

MUND KINGSLEY ARNOLD, *Salesmanship*

A.B. Brown

Member of Firm, The Converse and Arnold Company

ALPH EASTMAN BADGER, *Marketing*

M.C.S. Dartmouth; Ph.D. Yale

Assistant Professor of Economics, Brown University

ARL HENRY BECKER, *C.P.A. Problems, Income Taxes*

B.C.S. Northeastern; C.P.A. (N. H.)

Accountant, Louis Wolfe, Inc., Boston, Mass.

CHARLES ALBERT CEDERBERG, *Elements of Accounting*

Instructor, Boston Clerical School

ARL WILLIAM CHRISTIANSEN, *Advanced Accounting*

B.C.S. Northeastern; C.P.A. (R. I.)

Assistant Treasurer, The Morris Plan Bank

ERNEST CLAYTON, *Business Finance, Money and Banking*

Assistant Treasurer, Industrial Trust Co.

MUND WALTER FISCHER, JR., *Business Law*

A.B., LL.B. Boston University

Assistant City Solicitor

USSELL CHASE HARRINGTON, *Auditing*

C.P.A. (Mass.)

Manager, Ernst and Ernst

## *Staff of Instruction—Continued*

- GEORGE STANLEY HUTCHINS, *Cost Accounting*  
Comptroller, United Electric Railways Company
- ROBERT GEORGE INGRAHAM, *Advertising*  
A.M. Colgate  
Vice-President, The Livermore and Knight Company
- WILLIAM HENRY CHARLES JUST, *Credits and Collections*  
Credit Manager, Direct Rubber Company
- ERNEST IRONS KILCUP, *Business Management Problems*  
Credit Manager, Davol Rubber Company
- THOMAS LOWELL NORTON, *Personnel Management, Business Administration*  
B.S., M.C.S. Dartmouth  
Instructor, Brown University
- ANDREW HENRY PATON, *Specialized Accounting*  
C.P.A. (Mass.)  
Member of Firm, White and Paton, Boston, Mass.
- ROYAL ARLINGTON ROBERTS, *Sales and Advertising Campaigns*  
B.A. University of Michigan; M.B.A. Harvard  
Associate Professor, Northeastern University
- WILLIAM JACOB SANDS, *Business English*  
A.M. Harvard  
Instructor, High School of Commerce, Boston, Mass.
- JOSEPH SHERWOOD SNOW, *Junior Accounting Problems*  
B.C.S. Northeastern; C.P.A. (Mass.)  
Credit Manager, J. F. Street and Company
- NORMAN STEPHEN TABER, *Investment Analysis*  
A.B. Brown  
Secretary, The Brown Estates
- CHARLES ROBERT WILLIAMS, *Life Insurance*  
Ph.B. Sheffield Scientific School; Member of Staff of Travelers Insurance Com.
- AVIS STOKES MACINTOSH, *Registrar*

## *Committees*

### *Committee on Admission*

CARL DAVID SMITH, *Chairman*  
EVERETT AVERY CHURCHILL  
JAMES WALLACE LEES

### *Committee on Administration*

CARL DAVID SMITH  
EVERETT AVERY CHURCHILL  
GALEN DAVID LIGHT

### *Divisional Committee*

EVERETT AVERY CHURCHILL, *Chairman*  
GALEN DAVID LIGHT, *Vice-Chairman*  
CARL DAVID SMITH  
JOHN DOANE CHURCHILL  
LEO ROHE WALTER  
WILLIAM ALBERT LOTZ  
SIDNEY KENNETH SKOLFIELD  
CAROLYN ESTHER HENDERSON, *Secretary*



# SCHOOL OF COMMERCE AND FINANCE

## VALUES OF A UNIVERSITY TRAINING FOR BUSINESS

Modern business has become more complex with the rapidly changing economic organization of society during the last fifty years. These outstanding changes are:

- The development of large-scale production and distribution.
- The change in the form of the business unit from the single proprietorship and partnership forms to the corporation.
- The extensive development of the credit basis of exchange, thus necessitating the rise and growth of complicated banking and credit institutions.
- The rapid development of highly effective means of communication and transportation.
- The decline of the apprenticeship system and of trade heredity.
- The increasing tendency toward specialization of industrial and mechanical processes and with that specialization the sub-division of labor.
- The marked advance in seeking to eliminate waste in production and distribution through simplification.

In the light of these significant economic and social changes, it becomes increasingly difficult for a business leader to emerge and reach a position of executive importance through industriousness, genius, and experience. Such an individual encounters many obstacles in learning to visualize a business organization as a whole, to analyze its policies and functions, and to participate effectively in the administrative and managerial aspects of the enterprise. In most cases the advancement for the untrained man or woman in business is delayed and uncertain in spite of the fact that business continues to need qualified executives. Statistics show that

approximately ninety out of every one hundred university and college-trained business men advance to positions of major responsibility, while only twenty-five out of one hundred of those who are not university or college trained men ever assume and hold such positions. The secret of the success of the university trained business man lies in the fact that he is usually better able to see and appreciate the social and economic changes at work in business, to gain a broader perspective of business, and to approach a business situation with clear thinking and sound judgment. In addition, the university trained man more rapidly advances because he is more carefully observed in the average organization on account of the fact that he has had special training in business.

Commenting upon the problems of business education some years ago, ex-president Eliot of Harvard said, "I believe commerce and industry in their higher ranges to be eminently intellectual pursuits, and I know of no other intellectual calling for which a professional school is not provided. To deny that young men may be systematically trained for industry and commerce is to assert that industry and commerce are merely imitative arts to be acquired by seeing other people do the tricks and then practicing them. In industry and commerce all things are becoming new and new methods of preparing young men for these occupations must be invented with discriminating foresight and established with prudence, and maintained with liberality."

It must not be assumed that graduates of schools of business will be able at once to assume important management and executive positions. They must continue to study hard, work hard, and to prove their worth. However, because of their intimate knowledge of the fundamentals of business organization and procedure as presented in such courses in Economics, Financial Management, Distribution, Accounting, Business Law, Psychology, Sales, Advertising, and Transportation they can forge ahead more rapidly, make details more readily, and eliminate guesswork and waste more effectively than would be possible without this systematic training.

Those who are employed during the day can best acquire this training in evening schools of commerce and business administration under trained instructors who are also experienced business men. Such a training will insure on

## *School of Commerce and Finance*

---

t of capable students a broad business point of view and knowledge of sound business principles and methods which lead to positions of responsibility and to opportunities increased service.

### **COURSES AVAILABLE AND TIME REQUIRED**

Northeastern University was one of the first institutions in the country to establish an evening school of business offering collegiate courses for employed men. The evening School of Commerce and Finance has always been sensitive to the constantly changing demands in business. For this reason, the School offers a program of courses designed to meet the widely varied needs of the many men and women who desire a practical and effective training for business. The courses in the School have been so arranged that employed men and women of ability may take one or more single courses extending over as brief a period as four months, or more extended single courses or combination of courses for one year, two years, four years or even six years. These offerings are briefly as follows:

#### *Single Courses*

Students wishing to take a single or unit course or combination of single courses for either a half year or a full year may do so provided they have had the necessary preliminary preparation to pursue satisfactorily such courses. Approximately thirty different single courses are available each meeting one evening a week for sixteen weeks.

#### *Two-year Courses*

For those who wish an intensive training in a specialized field, two year programs have been provided in Salesmanship and Advertising, Credit Management, Financial Management, Accounting, and Marketing and Distribution. These require attendance upon class three evenings a week for two years. Students completing these programs as outlined on pages 43 to 47 will be awarded a Certificate of Proficiency.

#### *Four-year Courses*

To give an opportunity to those desiring to secure a more extensive preparation, four-year programs of study have been

outlined (see pages 41 to 43) in Commerce and Account Students completing one of these prescribed four-year courses will be awarded the Diploma of Graduate in Commerce or Graduate in Accounting, according to the field of specialization.

### *Five and Six-year Courses*

Students desiring a course leading to a university degree in business are offered two well-defined programs of study, one in Accounting and the other in General Business. Those entering in 1926-27 enter upon a five-year program leading to the degree of Bachelor of Commercial Science (see pages 34 to 36) and those entering in 1927-28 enter upon a six-year program (see pages 36 to 38) leading to the degree of Bachelor of Business Administration. Those entering in 1926-27 may choose the six-year program if they so desire.

### *Advanced Standing*

If eligible for advanced standing credit, a student is able to shorten the time required for the degree or diploma, and is not be compelled to duplicate courses which he has already satisfactorily covered.

Advanced Standing Credit may be obtained in two ways: by transfer from other recognized colleges or universities or by satisfactorily passing examinations in those subjects in which the applicant for admission presents evidence of satisfactory and systematic preparation or experience.

These various programs have been so planned that one who is employed during the day may find that specific type of training which is especially adapted to his needs. The single courses meeting one evening a week offer a wide variety of possible fields of training which will increase the student's vocational efficiency. The longer two-year, four-year and six-year courses will of course give training of a most effective character to those men who desire a thorough and complete preparation for business and are willing to devote sufficient time and energy to their studies to secure an adequate training.

# GENERAL STATEMENT

## ORGANIZATION OF THE SCHOOL

The School of Commerce and Finance is an evening professional school of business furnishing instruction leading to degrees of Bachelor of Commercial Science and Bachelor of Science in Business Administration. Established in March, 1907, the School was among the first institutions in the country to recognize and meet the demand for education in business. It was incorporated with degree granting powers by the Massachusetts Legislature in 1911.

The School has a separate administrative staff and is in no way organically related to the Northeastern University Day School of Business Administration. Those in charge of the administration of the School, with the exception of the Associate Deans in the Divisions, devote their entire time to the work of the School. The faculty is selected independently of the other Schools of the University in order to insure in so far as possible a teaching staff of men who are actively engaged during the day in positions of executive responsibility.

Divisions of the University are established in the Young Men's Christian Associations at Worcester, Springfield, and Providence. A complete program leading to a degree is offered in each division. The standards of work, the admission requirements, and the administrative regulations in the divisions are identical with those in Boston, the work being under the same supervision and administration as that in Boston. The faculty for each division is selected with care, approved and supervised by the administrative authorities of the School and the University.

## THE FUNCTION OF THE SCHOOL

The School was established to meet a new and growing demand made by those who were seeking a well-rounded scientific training in the field of business. Northeastern University has always been a leader in the movement to provide employed men and women with opportunities for securing high-grade instruction in those fields of training common to their everyday experiences. The School of Com-

merce and Finance is committed to the task of providing broad general training in preparation for a business career which will afford:

- a. An acquaintance with the fundamental business knowledge and a command over the basic principles underlying business as a science.
- b. Certain skills and abilities which come as a result of training in the application of these principles to typical business problems and situations.
- c. The ability to analyze a business problem and to arrive at sound judgments with regard to business situations.
- d. The development of that type of personality which insures the conduct of business in accordance with the highest individual and social ideals.

Until recently young men and women desiring to enter business started in minor clerical positions and worked through the several departments of the firm until they thoroughly mastered the complexities of the organization. Slowly and gradually they found their places of great usefulness, but in most cases not until they had reached years of maturity. Today, however, the process of trial and error has become extremely difficult and impractical, if impossible, because of the size and complexity of modern business organizations. The most progressive business firms and organizations clearly acknowledge that training alone in the school of experience and hard knocks is a most wasteful and prolonged process.

The function of the School of Commerce and Finance is to provide for those employed during the day, an opportunity to supplement their daily business experiences by a careful and systematic study of the principles and practices of organized business as applied to typical situations. A period of experience, however varied, can supply the value which come from such a study under trained instructors who are experienced business men. The student acquires a broad business point of view and a knowledge of the principles and methods which are essential in positions of responsibility.

## THE INTRODUCTION OF A SIX-YEAR PROGRAM

From the day of its opening in 1911 the School of Commerce and Finance has experienced a steady and remarkable success. Starting with an enrollment on September 25, 1911, of 153 students, the School has grown in size to a student body during 1925-26 of 1,096. The students in the School, by reason of their maturity and practical experience, are able to acquire and assimilate much more technical knowledge in a given time than could men of fewer years of business experience. The quality of the student's daily work in business is improved in large measure from the time he enters the School because of the practical instruction he receives. At the same time, his work in the School is more appreciated and of greater value by reason of his constant contact with actual conditions in business during the day.

Just as medicine, law, and engineering have called for technical and professional schools, so business has insisted that opportunities be made available for those who desire professional training in accounting, commerce, and finance. When the School of Commerce and Finance was first established such training was largely confined to the business administration departments of the larger universities. The six-year program of study offered by the School was outlined and prepared in conference with leading business men and educators.

Within the last five or six years business education has undergone a remarkable development. Standards of professional education for business have been materially raised. Graduate Schools of Business such as those at Harvard, Dartmouth, and Columbia have exerted a marked influence upon the development of these standards.

The service which a university renders to its students and to the community at large is determined in large measure by the progress which the institution makes in keeping pace with the educational developments of the time. During the last two or three years the School of Commerce and Finance has found that its four-year program was inadequate to meet the increasing demands made upon the School in training men for responsible positions. In order to render the most effective service to its student body, to the community, and to the business interests of New England, the Trustees of the University announced in January, 1925, that effective in

September, 1926, a five-year course of study would be required of those seeking the degree and that in September, 1927, a six-year program would be put into effect. With the introduction of these new standards, the School will be able to offer a greatly enriched program of study and to render more effective and permanent service.

In the six-year program of study the student will receive instruction in many of the fundamental basic subjects which it has been impossible to offer in the shorter four-year program. Business today is insistent and rightfully so, that its leaders of tomorrow shall possess more than a superficial specialized knowledge of one particular operation. The requirement is for men of broad training and an understanding of the basic principles of business organization and administration as presented in the six-year curriculum in the School of Commerce and Finance.

### WHOM THE SCHOOL SERVES

The following chart shows the representative occupational groupings in the School:

#### CHART I

#### Occupations of Student Body 1925-26

Occupations	No. Students	Per Cent
Clerks	404	37.8
Bookkeepers	99	9.3
Miscellaneous	94	8.8
Factory Workers and Tradesmen	92	8.7
Salesmen	88	8.3
Executives	78	7.3
Accountants	71	6.8
Not Given	33	3.0
Purchasing Agents	18	1.7
Cashiers	18	1.7
Teachers	17	1.6
Secretaries	14	1.3
Proprietors	12	1.2
Auditors	12	1.2
Engineers	8	.7
Stenographers	7	.6
	1,046	100.0



## *School of Commerce and Finance*

Students entering the School are relatively mature and come to the School with a distinct purpose in view. The business with which students pursue their courses, their maturity, their experience and their close association with actual business situations make it possible to accomplish more than is usually performed by students who are not so well equipped.

The chart given below indicates the maturity of the student body:

### CHART II

#### Ages of Student Body 1925-26

Ages	No. Students	Per Cent
18 and under	291	27.8
19 and under 25	313	29.9
25 and under 30	258	24.6
30 and under 35	129	12.3
35 and under 40	32	3.1
40 and over	24	2.3
Total	1,047	100.0

An analysis of existing data shows that the School serves the following major groups:

#### *Those Now in Business*

Many executives, such as general managers, office and sales managers, department heads, treasurers, accountants, cashiers, comptrollers, credit men, and officers of corporations find the School for special work of particular value to them. These men by virtue of their positions must be constantly at students of business trends and many of them welcome opportunities for systematic study of business principles and practices afforded by Northeastern University through the Evening School of Commerce and Finance.

Junior executives constitute another important group well served by the School. Many of these men find their work becoming so important as to require the exercise of independent judgment, discretion, and executive ability. They find their efficiency is dependent upon the possession of those knowledges, skills, and attitudes taught in the School and so essential to the business man.

The routine and clerical workers are a most important group in any organization and, as may be seen from Chart above, form the major portion of the student body. In this group are clerks, bookkeepers, bank tellers, stock-keepers, secretaries, and government workers. Almost all leading business executives have served in the beginning as routine or clerical workers, but invariably it is found that their advancement has been due to their willingness to improve their mental abilities, to their ability to analyze business problems as they arose, and to their determination to avoid the rut and blind alley job.

The School of Commerce and Finance provides for those business opportunities to secure a university education in business during their leisure hours without interference with their earnings.

### *2. The Recent High School Graduate*

The School offers a splendid opportunity for recent graduates of high school who desire to secure a university education in business but who are unable to continue their education on a full-time basis on account of the necessity of going to work.

All classes in the School are so arranged that this training can be secured without interfering in any way with their regular employment of the student. Graduates of high school are advised to select one of the complete curriculums leading to the degree.

### *3. The College Graduate*

Last year forty-two colleges and universities were represented by 112 alumni and former students in the student body of 1,096 students. Of the 112 coming from other institutions to Northeastern, thirty-three per cent received degrees from those institutions. The colleges and universities represented are as follows: Amherst, Antioch, Bates, Bowdoin College, Boston University, Bowdoin, California, Cincinnati, Clark, Colby, Columbia, Dartmouth, Harvard, Holy Cross, International Y.M.C.A. College, Massachusetts Institute of Technology, Mt. Holyoke, Nebraska, University of New Hampshire, New York, Norwich, Ohio State, Providence College, Radcliffe, Rhode Island State, Simmons, Syracuse, Vermont, George Washington, Worcester Polytechnic Institute.

Many college graduates have decided to enter business but are uncertain as to the type of work they should take up and have little or no business training and experience upon which to base their future success. To these the School offers an excellent opportunity for study leading to the Master of Business Administration degree.

#### *The Engineering School Graduate*

Graduates of engineering and scientific schools are finding it increasingly necessary to supplement their technical education with a more adequate background of business and economic training. The growing emphasis being placed upon the co-ordination of production with sales, finance, transportation, and purchasing makes it frequently necessary for an engineer to assume larger executive responsibilities than were first anticipated.

The School of Commerce and Finance provides the engineering school graduate with a training that supplements his technical education and enables him to adapt himself to a larger field of service than might otherwise be possible. A degree leading to the Master of Business Administration is offered to those holding a bachelor's degree in science or engineering.

#### *Teachers and Prospective Teachers*

Employers are uniformly demanding more highly trained employees. As a result, teachers of commercial subjects in normal schools, high schools and private commercial and business schools must be increasingly better prepared in their field of specialization in particular:

1. They must become conversant with the fundamental aims of business and commercial education.
2. They must become better acquainted with the technical content of the courses which they teach.
3. They must become students of modern business in its broader aspects especially with reference to its social significance.
4. They must bring about a closer co-ordination of their classroom work with actual business.

Northeastern University offers through its evening courses in the School of Commerce and Finance excellent oppor-

tunities for teachers who wish to increase the scope of service along the lines indicated above.

Those who enter the School do so for one of the following reasons:

1. To prepare for advancement.
2. To secure a broader and better preparation for responsibilities of their present work.
3. To secure a thorough and scientific university training in business.
4. To become acquainted with the best and most modern methods of conducting a business enterprise.
5. To secure that training which will enable them to handle their own personal affairs in a more business-like manner.
6. To discover their own abilities and come to a decision as to their life work.

## OUTSTANDING FEATURES

The following outstanding features of the School characterize it as a distinctive and significant evening college school of business:

1. *Broad Foundational Training.* The School seeks to avoid narrow specialization, basing its training upon a fully co-ordinated and well-developed program. This program gives the student a basic understanding of the principles and policies from which he develops definite skills and ability in dealing with actual business situations.

2. *Business Experience Combined with Training.* The combination of daily business experience with a classroom training prepares the student to analyze business situations; to arrive at effective solutions of business problems. This is the most desirable basis for securing a business education. No training, however effective, can displace practical business experience, but such training does supplement and enrich the everyday experiences on the job. The student profits immeasurably by such a combination and as a result finds advancement most rapid.

3. *Problem Method of Instruction.* The method of instruction used in most of the courses keeps the student

contact with actual business affairs. In so far as is possible and feasible, instruction is based upon the problem-discussion method. Problems taken from actual business situations are presented to the student and thoroughly discussed in the classroom. From these problems general principles underlying business organization and management are deduced. Frequent written reports are turned in. Textbooks giving fundamental information and principles are used as collateral reading to take the place of a lecture by the instructor.

4. *Instructors with Business Experience.* The policy of the School is to select for its faculty those men who are qualified both by business and professional experience to impart information and to direct and lead the student in the analysis and solution of business problems. Instructors are sympathetic with the difficulties and needs of adult evening students and are ready at all times to give friendly counsel and guidance. Because of their business experience, instructors bring a wealth of valuable experience and information to the classroom.

5. *Students Selected for their Ability.* The policy governing admission is such that students are selected who give promise of ability and purpose to do consistently high-grade work. This selective process insures such a type of incoming students that the School can maintain high-grade instruction, and can demand that the students make satisfactory achievements in their classwork.

## THE FACULTY

The faculty of the School numbers 83 persons distributed as follows: Boston 23, Worcester Division 19, Springfield Division 23, and Providence Division 20. The members of the faculty are well qualified for their work both from the standpoint of business experience and training. The leading institutions from which the staff hold degrees are as follows: Harvard, Yale, Dartmouth, Princeton, Columbia, Brown, Williams, Clark University, Bowdoin, Massachusetts Institute of Technology, University of Pennsylvania, Worcester Polytechnic Institute, Sheffield Scientific School, Wesleyan University, Holy Cross, University of Wisconsin, University of Michigan, Oberlin, Ohio University, Lehigh, Bates,

Northeastern, Middlebury, New York University and Colgate.

The occupational interests of the staff other than teaching in the School of Commerce and Finance are as follows: Teachers 29, Executives 24, Accountants 15, Lawyers 3, Salesmen 3, and 1 in research work.

Many members of the staff are engaged in educational work other than teaching in the School, such for instance as writing for business and professional journals, text book preparation, research and college, university and secondary school teaching.

From the standpoint of experience in teaching, the faculty is well qualified. A study of the classroom experience shows that the 82 members of the staff have averaged 7.7 years as instructors either in Northeastern or in other institutions. Of the 82 members, 25 have taught ten years or more.

## ADMISSION

### *Classification of Students*

All students in the School are classified as follows:

A regular student is one who has fully met the admission requirements and is a candidate for the degree, the four-year diploma, or the two-year certificate.

A conditioned student is one who at the time of entrance to the School has deficiencies in previous school work but is admitted conditionally as a candidate for the degree, the four-year diploma, or the two-year certificate, reclassification being in accordance with either 2b or 2c below.

An unclassified student is one who at the time of entrance is not eligible for or does not seek classification as a candidate for the degree, the diploma, or the certificate. Unclassified students are of the following types:

- (1) Those taking a single course or combination thereof and who do not desire or seek classification.
- (2) Those who at the time of admission are not eligible for classification as regular or conditioned students and candidates for the degree, the diploma, or the certificate but who may later become eligible for reclassification in the manner outlined under 2c below.

### *Admission of Students*

An applicant may be admitted as a regular student if one of the following requirements is met:

- (1) Graduation from an approved day high school or school of equal grade.
- (2) Completion of fifteen units\* of work in an approved high school or school of equal grade.

A unit represents a year's study in any subject in an approved day secondary school, constituting approximately a quarter of a full year's work. A four-year-day secondary school curriculum is regarded as representing not more than sixteen units of work.

b. An applicant may be admitted as a conditioned student under the following rules:

- (1) Applicants eighteen to twenty-one years of age may be admitted to the School provided they have completed thirteen units of approved high school work; they may be reclassified as regular students upon removal of two units condition. Such students must remove these conditions prior to beginning the third year of study.
- (2) Applicants over twenty-one years of age who cannot satisfy the requirements for admission as regular students may be admitted as conditioned students. Such students may be reclassified as regular students upon having fully met the requirements for admission as regular students. Such conditioned students must remove all admission conditions and reclassify as regular students before entering upon their fourth year of study.

Courses taken in the School may be applied toward removal of entrance conditions upon the basis of two-thirds one unit for each two semester hours of work.

A student cannot offer the same course both as credit toward admission and for the degree, diploma, or certificate.

c. Applicants may be admitted as unclassified students and may reclassify under the following conditions:

- (1) Subject to the approval of the Dean, unclassified students may be reclassified at any time if at the time of entrance to the School they were eligible for admission as regular or conditioned students.
- (2) Subject to the approval of the Committee on Admission, applicants twenty-one years of age or over with less than a full high school education, but who possess exceptional ability may be reclassified as regular students providing the following conditions have been or are met:
  - (a) They must have passed the Intelligence Test given to the class upon entrance with a score above the median of the class.
  - (b) They must have completed all of the prescribed courses for the first two years with an average of 'C.'



- (c) They must show through a complete personnel analysis satisfactory evidence of maturity, ability, moral character and general worth.

No student will be reclassified as a regular student and a candidate for the degree under this ruling unless that student's record shall have been such as to warrant the student being considered as a person of exceptional qualifications.

- (3) Upon reclassification a student may receive credit for work already completed in the School but the same courses cannot be offered both as credit for admission and for the degree, diploma, or certificate.

## ADVANCED STANDING

### *By Transfer of Credit*

Credit for advanced standing in the School may be given subject to the approval of the Committee on Admission for work completed in other approved colleges and universities if such work is similar in content and character to corresponding courses in the School of Commerce and Finance. Respective of the amount of credit earned in other institutions, students must complete at least one year's work (twelve semester hours) in the School before receiving the bachelor's degree or the four-year diploma. Candidates for advanced standing must file certificates upon which transfer credit may be based with their application for admission. A copy of a marked catalog of the institution from which transfer is sought should accompany the transcript of record showing those courses for which credit is desired.

### *By Examination*

Applicants who are seeking admission to the School and who desire to secure Advanced Standing Credit toward the degree or the four-year diploma by examination must meet the following conditions:

- a. A written application for examination, on proper forms secured from the School office, must be filed with the Dean, or the Director in the case of the Divisions, prior to the student's beginning his studies in the School. This application must be approved by the Committee

on Admission. In arriving at its decision the Committee will take into account previous training, business experience, and other factors showing the applicant's preparation and ability in the subject in which Advanced Standing Credit is sought.

- b. A grade of 75 per cent must be obtained in the examination in order to secure credit for the subject.
- c. The same subject cannot be offered both for admission credit and as a basis for an advanced standing examination.

## TUITION AND OTHER FEES

*Application Fee.* An application fee of \$5 must accompany the application for admission and is payable only once, on initial entrance to the School. This fee is not refundable.

*Tuition Fee.* The tuition fee is \$9 for each semester hour. The normal program for a degree candidate is six hours for each semester.

Tuition for each semester is payable in advance as follows: in case the total tuition charge, exclusive of other fees, is \$20 or less, the full amount is payable upon registration. Amounts over \$20 are payable one-half at the time of registration, either for the first or second semester or both; in case of the first semester, the other half is payable on November 1, and in the case of the second semester on March 1.

To accommodate students whose tuition for a semester is \$48 or more and who find it impossible to pay in accordance with the above plan, a deferred payment plan has been provided. This plan requires that the student shall sign an agreement and pay a charge of \$2 at the time that the agreement is made for each such agreement. This charge covers the costs of additional record keeping occasioned by partial payments. The conditions under which deferred agreements are made will be furnished upon application at the School office.

A special tuition charge of \$40 is made for the C.P.A. Review Quiz.

A thesis fee of \$25 is required of all candidates for the Master's degree.

All tuition fees, except for the C.P.A. Review Quiz, include, for men, a limited membership in the Y.M.C.A.

*Other School Charges.* Students taking condition examinations or examinations for advanced standing credit are required to pay a fee of \$2 for each such examination.

The University graduation fee, the four-year diploma, or two-year certificate fee is \$10 payable on or before March 1 of the year in which the student expects to graduate or receive the diploma or certificate.

## WITHDRAWALS AND REFUNDS

Students who are forced to withdraw from the School are requested to notify the School office in writing to the effect that they are withdrawing and to give their reasons for doing so. This notification should be given promptly.

As the School assumes the obligation of carrying the student throughout the year when the student registers and as the University provides the instruction and accommodations on a yearly basis, the Executive Council of the University has ruled that refunds can be granted only under the following conditions:

1. In cases where students are compelled to withdraw on account of personal illness. The application for refund must be accompanied by a satisfactory certificate from a physician.
2. In case a student is regularly employed during the day and is sent out of the city permanently by his employer or compelled to change his working hours so as to prevent his continuance in the School, a refund may be granted, provided the application is accompanied by a satisfactory statement from the firm.

Refunds are computed from the date on which the student files with the School his applications for withdrawal and refund and not from the date of last attendance.

A five dollar registration charge is retained in each case. The amount to be refunded would be the balance of the unused tuition after making the deductions indicated. Fees are not refundable.

A student who at the time of withdrawal has not paid in full his current charges for tuition cannot be granted an honorable dismissal until he has met these charges together with the registration charge. Students not entitled to an honorable dismissal cannot be granted a certificate or statements of credit for work already completed.

## PROGRAMS OF INSTRUCTION

The School provides two major curriculums leading to the degree, one affording specialization in accounting and the other a preparation for general business. These two curriculums are offered in all the Divisions but not all the special two-year curriculums and courses offered in Boston will be provided in the Divisions. The needs are different in the respective cities and consequently the specialized programs and courses must vary.

In the accounting and general business curriculums certain basic subjects are required of all students. These subjects are considered fundamental for a further study of business and essential for the development of the executive. They have been required for the following reasons:

1. They provide a broad foundation of general business training upon which specialization is later developed.
2. They constitute during the first two or three years of study a training in the underlying principles of administration of a business rather than the technical processes.
3. Many students enter the School without knowing definitely for what line of business they desire to prepare. These basic courses furnish a vocational direction which enables the student to more wisely choose his field of specialization.
4. An analysis of the student body of the School shows conclusively that many students change the nature of their work after having graduated from the School or during the progress of their study. These basic courses have been so arranged that in case a student makes a change either before or after graduation, he is prepared to make a re-adaptation to the new conditions of business which he meets.

### GENERAL BUSINESS

The purpose of this course is to provide a well-balanced general training in business. The more highly developed and complex business becomes, the more necessary it is that executives be properly trained to meet the situations that arise. Education and training in the broad fundamentals,

linked with adequate business experience are necessary give executives, even in junior capacities, sufficient balance and depth to meet the demands made upon them. Such training is fully as important as the specialized training with which many of them are now equipped.

Training for wise leadership in any type of a business, large or small, involves a comprehension of human relations in the community, national and world interests, as well as a broad knowledge of the business. The business executive cannot afford to make many serious mistakes. To guard against and avoid mistakes, he must be fortified with an all-round knowledge of the social and economic, as well as the business principles which are the foundation upon which the quality of rounded leadership must be built.

The General Business Curriculum is designed to give training which will develop those abilities and give a working knowledge of those principles that are so essential to successful management and to the operation of a business enterprise.

## ACCOUNTING

Lecturing before the Harvard Graduate School of Business Administration recently, a prominent New York banker stated that in his opinion accounting was the finest possible avenue by which a young man or young woman might successfully enter an executive position in business. The ability, however, to advance into executive positions from the field of accounting can be realized only if the individual has, in addition to his or her technical training in accounting, a knowledge of such fundamental subjects as business organization, financial management, marketing, and other basic subjects required in a recognized school of business administration. In very few cases will a student find knowledge of accounting alone sufficient to permit the most satisfactory advancement in the profession. The accountant's greatest success comes from a well-rounded business training and experience.

Those who are looking forward to accounting as a life work have two fields of service open to them, that of commercial and industrial accounting with a large organization or that of public accounting. In the one field is offered the opportunity of growing with the business and working out its problems of organization, systems, and accounting and

Ultimately to assume a position of executive and administrative responsibility. In the other field is offered the opportunity to become associated with a firm of public accountants and to render a professional service to business as a whole. There is probably no individual within a business organization and no one who renders high grade professional service to a business who has so great an opportunity as the accountant to see and understand all the varied operations of organization. Which field to enter will depend somewhat upon the individual's taste and inclination.

In this curriculum the field of accounting is presented with the entire business organization as a background. The course of training is designed to prepare students for accounting positions in large corporations and more especially for professional accounting. While the basic purpose of the curriculum is to provide a broad training for the practice of accounting, the course nevertheless is intended to qualify students to pass the State C.P.A. and the American Institute examinations. Particular attention is paid during the last year to the preparation of students for these examinations.

## FOUR-YEAR AND TWO-YEAR COURSES

In addition to the longer curriculums leading to the degrees, special four-year courses of study are planned for those who wish an adequate preparation for a definite vocational objective and who are not interested in receiving the degree. Two-year special courses for those wishing the Certificate of Proficiency will be planned as the need arises. Both the four- and two-year programs usually consist of courses selected from the major curriculums and rearranged to suit the special needs of the individual student. A few of the most important combinations are presented in the catalog. Others may be planned as necessary.

While students are admitted to single courses and while special courses of study will be laid out to meet the needs of individual students, each student is advised to undertake one of the organized degree curriculums. These curriculums have been planned so as to co-ordinate and balance the training of the student and give the most effective results for the efforts expended. The prestige and standing which the university graduate holds well repays one for the additional time and effort necessary to complete the work for the degree.

# REQUIREMENTS FOR DEGREES, DIPLOMA AND CERTIFICATE

## *Unit of Credit—Semester Hour*

The unit of credit for courses completed in this School is the semester hour. A semester hour of credit indicates the satisfactory completion of one sixty-minute period of classroom work per week for one semester of seventeen weeks. A course which meets two hours an evening, one evening per week for one semester has a credit value of two semester hours. A course meeting on the same basis for two semesters carries a credit value of four semester hours.

## REQUIREMENTS FOR THE BACHELOR OF COMMERCIAL SCIENCE (B.C.S.) DEGREE

Students enrolled in the School during the school year 1925-26 as candidates for the Bachelor of Commercial Science degree and who have completed credit toward the degree, will be eligible for the degree upon having satisfied the conditions in force at the time of their entrance to the School.

Students entering the School for the first time during the school year 1926-27, and former students who were not enrolled in 1925-26 will be awarded the degree of Bachelor of Commercial Science upon satisfactorily completing the following requirements:

1. They must have met the requirements for admission (See pages 25 to 27.)
2. They must have secured a minimum credit of eighty-four semester hours in the following manner:
  - a. At least sixty semester hours credit must be secured through the satisfactory completion of courses in the School unless the student is admitted with advanced standing. (For advanced standing credit see page 27.)
  - b. Not more than twenty-four semester hours credit will be allowed for business experience. Credit for business experience is granted upon the ground that the knowledges, skills and experiences



## *School of Commerce and Finance*

acquired in a business organization are equivalent to laboratory work. This credit is given on the basis of not more than eight semester hours each year during the last three years of a student's work in the School. In order to obtain credit for business experience, the student must meet such requirements as may be prescribed from time to time.

The curriculums are composed of required and vocational major courses. Students specializing in either Accounting or General Business must take all required courses as indicated below. In addition they must choose one of the two vocational majors, according to their field of specialization.

### REQUIRED COURSES

The following courses must be completed by all students who are candidates for the B.C.S. degree:

	Semester Hours
Elementary Accounting	4
Corporation Accounting	4
Administrative Accounting	2
Business Organization and Management	4
English for Business	4
Business Economics	2
Financial Management	4
Merchandising Principles	2
Distribution Problems	4
Law of Contracts	2
Law of Business Associations	2
Law of Commercial Papers	2
Credits and Collections	4
Business Writing and Reports	2
Business Experience	24
	—
	66

### VOCATIONAL MAJORS

Students majoring in General Business must complete the following additional courses:

	Semester Hours
Applied Salesmanship	2
Purchasing	2
Advertising Principles	2
Traffic and Transportation	2
Management Problems	4
Distribution Management	2
Investments	2
Government and Business	2
	—
	18

Students majoring in Accounting must complete the following additional courses:

	Semester Hours
Specialized Accounting	2
Advanced Accounting Problems	4
Cost Accounting	4
Auditing	4
C.P.A. Problems	2
Income Tax Accounting	2
	—
	18

#### TIME REQUIREMENTS

The normal schedule is twelve semester hours a year. This necessitates attendance at classes three evenings a week, two hours each evening, throughout the school year. On this basis, to complete the above requirements will take five years. Students may, however, reduce this time by carrying additional hours, or by pursuing summer courses of approved grade in other recognized colleges or universities.

#### REQUIREMENTS FOR THE BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.) DEGREE

Students entering the School for the first time during the school year 1927-28 and thereafter, and former students enrolled prior to 1925-26 will be eligible for the degree Bachelor of Business Administration upon satisfying the following requirements:

1. They must have met the requirements for admission (See pages 25 to 27.)
2. They must have secured a minimum credit of 10 semester hours in the following manner:
  - a. At least seventy-two semester hours credit must be secured through the satisfactory completion of courses in the School unless the student is admitted with advanced standing. (For advanced standing credit see page 27.)
  - b. Not more than twenty-four semester hours credit will be allowed for business experience. Credit for business experience is granted upon the ground that the knowledges, skills and experiences acquired in a business organization are equivalent to laboratory work. This credit is given on the basis of not more than eight semester hours each year during the last three years of student's work in the School. In order to obtain credit for business experience, the student must meet such requirements as may from time to time be prescribed.
  - c. Not more than four semester hours credit will be granted upon the presentation and acceptance of a prescribed thesis. This thesis is required of all degree candidates and must meet the

## *School of Commerce and Finance*

---

requirements prescribed by the Committee on Administration.

The curriculums are made up of required and vocational major courses. Students desiring to specialize in either accounting or General Business must take all the required courses as listed below, and select in addition one of the vocational majors, according to their field of specialization.

### REQUIRED COURSES

The following courses are required of all students who are candidates for the B.A.A. degree:

	Semester	Hours
Elementary Accounting	4	
Corporation Accounting	4	
Administrative Accounting	2	
Business Organization and Management	4	
English for Business	4	
Business Economics	2	
Financial Management	4	
Merchandising Principles	2	
Distribution Problems	4	
Law of Contracts	2	
Law of Business Associations	2	
Law of Commercial Papers	2	
Credits and Collections	4	
Business Reports	4	
Psychology in Business	2	
Problems in Business Economics	4	
Business Statistics	4	
Business Experience	24	
Thesis	4	
	<hr/>	82

### VOCATIONAL MAJORS

Students majoring in General Business must complete the following additional courses:

	Semester Hours
Applied Salesmanship	2
Purchasing	2
Certifying Principles	2
Traffic and Transportation	2
Management Problems	4
Distribution Management	2
Investments	2
	<hr/>
	18

Students majoring in Accounting must complete the following additional courses:

	Semester Hours
Specialized Accounting	2
Advanced Accounting Problems	4
Cost Accounting	4
Auditing	4
C.P.A. Problems	2
Income Tax Accounting	2
	<hr/>
	18

### TIME REQUIREMENTS

To complete the requirements for the B.B.A. degree outlined above on a normal twelve-hour schedule for each

year will require six years. Many students, however, by carrying additional hours or by pursuing approved summer courses in other recognized colleges and universities, may be able to reduce the time to four or five years.

### BACHELOR'S DEGREE REQUIREMENTS FOR FORMER COLLEGE STUDENTS

Former college students are admitted to the School with advanced standing credit in accordance with the following conditions and may become candidates for the Bachelor of Business Administration degree upon fulfilling the prescribed requirements for the degree as outlined on page 4.

	Maximum Semester Hours
(a) For three years of college work	54
(b) For two years of college work	36
(c) For one year of college work	18

Advanced standing credit may be granted for work completed in any of the following fields of study but not in excess of the maximum credit indicated for each field.

English	10 hours
Economics (General)	10 "
Finance	8 "
Accounting	8 "
Psychology	2 "
Business Law	6 "
Marketing	6 "
Traffic and Transportation	4 "
Economical and Industrial History	8 "
Business Organization and Management	6 "
Government and Sociology	6 "
Statistics	1 "

### REQUIREMENTS FOR THE MASTER OF BUSINESS ADMINISTRATION (M.B.A.) DEGREE

The Master of Business Administration degree is awarded on the basis that the candidate meets the requirements for the degree with a record of achievement and application above the average. The degree is not awarded merely upon the completion of so many semester hours of classroom work or the equivalent. Candidates must show through their thesis the ability to analyze a business situation and make the application of fundamental principles to problems of prime importance in the field of business.

The degree of Master of Business Administration is conferred upon those meeting the following conditions:

1. They must be graduates of approved colleges, scientific or professional schools.\*
2. They must have completed thirty semester hours in approved courses of which not more than four semester hours may be taken in another institution. In addition, a thesis is required for which six semester hours' credit will be given.
3. Work presented for credit towards the Master's degree must be of "B" grade or higher.
4. Students who as undergraduates have completed courses of graduate character in excess of the requirements for their Bachelor's degree may offer such excess credit toward the Master's degree provided such courses parallel in general content those required and offered as elective for the Master's degree in this School. In no case will a student be permitted to receive the Master's degree unless at least twelve semester hours of classwork, exclusive of the thesis and individual research, are completed in the School of Commerce and Finance.
5. Each candidate must present a thesis on an approved subject in the major field of study. The thesis must give evidence of careful research. The subject and outline of the thesis must be filed with the Dean of the School not later than May 1st of the year preceding that in which the candidate expects to graduate. The first draft of the thesis must be presented to the Dean not later than March 1, and the completed unbound thesis must be placed in the hands of the Dean on or before May 1 of the year in which the candidate plans to take the degree. The thesis must be approved before the candidate is permitted to take the oral examination. After final approval and before Commencement, two bound typewritten copies of the thesis must be deposited with the School.
6. After the course and thesis requirements have been fulfilled, each candidate is required to take an oral examination involving a defense of the thesis, and an

\*Graduates of collegiate schools of business may be admitted to candidacy for the M.B.A. degree only upon special approval of the Dean of the school.

examination of the candidate's general knowledge of  
the major field of study.

### REQUIRED COURSES

Candidates for the Master's degree must complete in the school or present evidence of having satisfactory credit in the following prescribed courses:

	Semester	Hours
Business Statistics		4
Management Problems		4
Distribution Problems		4
Elementary Accounting		4
Corporation Accounting		4
Thesis		6
Individual Research		2
		<hr/>
		28

### ELECTIVE COURSES

All schedules for elective courses must meet the approval of the Dean and the Committee on Masters' degrees. Candidates must select not less than ten semester hours' work from the following courses to make up the total of thirty-six semester hours required for the degree.

	Semester	Hours
Distribution Management		2
Financial Management		4
Credits and Collections		4
Credit Research		2
Analytical Credits		4
Advanced Accounting Problems		4
Cost Accounting		4
C.P.A. Problems		2
Auditing		4
Traffic and Transportation		2
Advertising Principles		2
Investments		2
Government and Business		2
Administrative Accounting		2
Individual Research		4

### TIME REQUIREMENTS

The period of time necessary to meet the above requirements for the Master's degree will be dependent upon two factors: (1) the number of semester hours satisfactorily completed each year in the School, and (2) upon the amount of advanced standing or excess credit which the candidate is given for work completed prior to entrance to this School.

## GENERAL REQUIREMENTS FOR THE FOUR-YEAR DIPLOMA

Students entering the School for the first time during the school year 1926-27 and thereafter, and former students re-entering will be awarded either a Diploma of Graduate in Accounting or a Diploma of Graduate in Commerce upon meeting the following requirements:

1. They must have met the requirements for admission.  
(See pages 25 to 27.)
2. They must have secured minimum credit of forty-eight semester hours in the required Accounting or General Business curriculum through the satisfactory completion of courses in the School unless the student is admitted with advanced standing.  
(For advanced standing credit see page 27.)

### REQUIREMENTS FOR THE DIPLOMA OF GRADUATE IN ACCOUNTING

Candidates for the Diploma of Graduate in Accounting will be awarded the diploma upon satisfying the admission requirements as regular students and upon satisfactorily completing forty-eight semester hours credit as follows:

#### *Required Courses*

	Semester Hours
Elementary Accounting	4
Corporation Accounting	4
Administrative Accounting	2
Specialized Accounting	2
Advanced Accounting Problems	4
Cost Accounting	4
Auditing	4
C.P.A. Problems	2
Income Tax Accounting	2
English for Business	4
Law of Contracts	2
Law of Business Association	2
Law of Commercial Papers	2
Business Economics	2
Problems in Business Economics	4
	—
	44

*Elective Courses*

The candidate must elect from the following courses enough credit to bring the total credit up to the required forty-eight semester hours.

	Semester Hour
Financial Management	4
Business Reports	2 or 4
Business Statistics	4
Psychology in Business	2
Government and Business	2
Investments	2
Management Problems	2 or 4

*Time Requirements*

Based upon the normal schedule, a student may complete all requirements for the diploma in four years. This time may be shortened by carrying extra hours or by the presentation of advanced standing credit.

REQUIREMENTS FOR THE DIPLOMA OF GRADUATE  
IN COMMERCE

Candidates for the Diploma of Graduate in Business Administration will be awarded the diploma upon satisfying the admission requirements as regular students and upon satisfactorily completing forty-eight semester hours credit as follows:

*Required Courses*

	Semester Hours
Business Organization and Management	4
Elementary Accounting	4
English for Business	4
Corporation Accounting	4
Administrative Accounting	2
Business Economics	2
Problems in Business Economics	4
Financial Management	4
Merchandising Principles	2
Law of Contracts	2
Law of Business Associations	2
Law of Commercial Papers	2
Government and Business	2
Management Problems	4
	—
	42



*Elective Courses*

The candidate must elect from the following courses enough credit to bring the total credit up to the required forty-eight semester hours.

	Semester Hours
Distribution Problems	4
Salesmanship	2
Credits and Collections	4
Purchasing	2
Advertising Principles	2
Traffic and Transportation	2
Business Reports	2 or 4
Distribution Management	2
Investments	2
Psychology in Business	2
Business Statistics	1

*Time Requirements*

(See "Time Requirements" for Diploma of Graduate in accounting page 42.)

**REQUIREMENTS FOR THE TWO-YEAR  
CERTIFICATE OF PROFICIENCY**

To meet the needs of students who desire an intensive training of a specialized nature and who feel they cannot devote the time required to complete a degree or diploma curriculum, special two-year curriculums have been prepared offering specialization and leading to the Certificate of Proficiency.

Credit toward the diploma or the degree curriculums is allowed in case certificate students should later decide to become candidates for the diploma or the degree.

Candidates for the Certificate of Proficiency must meet the following requirements:

1. They must have met the requirements for admission as regular students prior to beginning the second year of study.
2. They must have secured the minimum of twenty-four semester hours' credit through the satisfactory completion of courses in the School. At least twelve of the twenty-four semester hours must be offered in the field in which the student desires to become proficient. Students expecting to receive the Certificate of Pro-

iciency should consult with the Dean, or the Director in the case of the Divisions, before the close of the first year of study with reference to their program requirements.

#### SUGGESTED TWO-YEAR COURSES OF STUDY

The following are suggested courses of study of the two-year Certificate:

#### *Salesmanship and Advertising*

The marketing of goods or services may be classified in two major functions, namely, Salesmanship and Advertising. Salesmanship is selling through the personal approach, while Advertising deals with the presentation of sales through the printed word. To understand and appreciate the underlying principles and practices of Salesmanship and Advertising a knowledge of merchandising and marketing is most essential. The following program gives splendid specialized training in these functions:

	Semester Hours	Credit
Business Organization and Management	4	
Merchandising Principles	2	
Psychology in Business	2	
English for Business	2	
Salesmanship	2	
Distribution Problems	4	
Advertising Principles	2	
Law of Contracts	2	
Distribution Management	2	
Business Economics	2	
	—	
	24	

#### *Credit Management*

Northeastern University in co-operation with the National Institute of Credit offers courses of instruction required by the National Institute for its certificates. Two certificates are issued, one a Junior certificate awarded upon the completion of twenty semester hours of prescribed work, the other a Senior certificate awarded upon the completion of an additional twenty semester hours.

Students completing the requirements for either certificate will at the same time receive credit toward the Certificate.

## *School of Commerce and Finance*

---

of Proficiency, the Diploma, or the Degree as the case may be.

The Junior Certificate is awarded to those who have completed the following courses:

	Semester	Hours	Credit
Elementary Accounting		4	
Business Organization and Management		4	
Law of Contracts or Financial Management		4	
Credits and Collections		4	
English for Business		4	
		---	
		20	

Those interested in the requirements for the Senior certificate are requested to consult the Dean, or the Director of the Divisions, for further information.

The following courses which are required for the National Institute of Credit certificates are offered by the School:

	Semester	Hours	Credit
Elementary Accounting		4	
Business Organization and Management		4	
Business Economics		2	
Problems in Business Economics		4	
English for Business		4	
Merchandising Principles		2	
Business Statistics		4	
Investments		2	
Credit Research		2	
Credits Analysis		4	
Credits and Collections		4	
Financial Management		4	
Business Law		6	

The normal time required to complete the work for the Junior certificate is one and one-half years or three semesters, assuming that the student carries three subjects each semester. The senior certificate requires double the time of the Junior Certificate.

### *Financial Management*

In the complex economic organization of the present, finance is a factor of supreme importance. The policies and decisions made by the financial interests have a vital bearing upon the development and management of business enterprises in general.

The financial field is attractive from many viewpoints and specialists in this field are increasingly in demand.

## Northeastern University

Those wishing to prepare for this phase of business activity may do so through the following two-year curriculum.

	Semester Hours	Credits
Business Organization and Management	4	
Elementary Accounting	4	
Business Economics	2	
Investments	2	
Financial Management	4	
Corporation Accounting	4	
Business Statistics or Problems in Business Economics	4	
	<hr/>	
	24	

Northeastern University is co-operating with the Investment Bankers' Association of America in offering courses of study for men and women interested in the Investment Banking field.

### *Accounting*

This course is suggested for those who have a preliminary preparation in accounting or are now engaged as junior accountants and who desire to make special preparation for the C.P.A. examination. Only those who have had sufficient previous training and experience will be admitted to this curriculum.

	Semester Hours	Credits
Advanced Accounting Problems	4	
Specialized Accounting	2	
Administrative Accounting	2	
Law of Contracts	2	
Law of Business Associations	2	
Cost Accounting	4	
Auditing	4	
Law of Commercial Papers	2	
C.P.A. Problems	2	
	<hr/>	
	24	

### *Marketing and Distribution*

The Joint Commission of Agricultural Inquiry of the Sixty-seventh Congress in its report on Marketing and Distribution says: "The Commission is convinced that the problem of distribution is one of the most important economic problems before the American people and that through its solution can there be equitable adjustment among agriculture, industry, transportation, labor, finance and commerce. The solution of the problem of distribution

must be secured through a betterment of methods and the elimination of wastes and uneconomic practices. A better system of distribution can only be hoped for through a more intelligent study of methods, facilities and purposes."

This curriculum is designed to give the student that necessary background of the economics, the policies, the management and the methods of distribution and marketing, in order that the business men of the future may take a larger part in the solving of this most important national economic problem.

	Semester	Hours	Credit
Merchandising Principles		2	
Elementary Accounting		4	
Business Economics		2	
Salesmanship		2	
Advertising Principles		2	
Distribution Problems		4	
Distribution and Management		2	
Traffic and Transportation		2	
Business Statistics		4	
		<hr/>	
		21	

### *C.P.A. Review Quiz*

For those desiring special and intensive review for the C.P.A. examination, a C.P.A. Review Quiz is organized in Boston only, each year in advance of the examination. Only those are admitted to this course who have had the necessary preliminary training and experience to enable them to profit by the intensive and severe requirements of this work. Those interested in this course should send for the special folder giving full information as to the nature of the course, tuition, schedule, etc.

## DESCRIPTION OF COURSES

The University reserves the right to withdraw or modify these courses, or to change the order of courses in the curriculums as may seem advisable.

The University further reserves the right to withdraw any year any elective or special course for which less than thirty enrollments have been received. Regular students affected by such withdrawal will be permitted to choose some other course or in case of special students a full refund of tuition and other fees will be made.

Students should consult the local schedule of classes for information as to courses given during the present year.

Unless otherwise indicated, classes in all courses meet once a week.

All full year courses are numbered with a double consecutive number and all semester courses with a single number. The letter or letters immediately preceding the numbers indicate the classification of the course.

### ACCOUNTING (A)

Applicants for admission to the School who have had successful experience in accounting or bookkeeping work or who have pursued systematic courses of training in institutions of less than college grade may take Advanced Standing examinations upon entrance to the School in such accounting courses as are approved by the Committee on Admission. (See Advanced Standing examinations page 27.)

Upon passing an advanced standing examination, the applicant will receive full credit for that course and will be admitted to the next high course.

*Elementary Accounting (A1-2). Required for a degree. No previous knowledge of bookkeeping necessary.*

The purpose of this course is to explain and illustrate the fundamental principles and practices of accounting as applied to sole proprietorship and partnership business. The course is intended for the student of general business as well as for the beginning student of accounting who is preparing to become a Certified Public Accountant.

From the beginning the student is acquainted with the functions and purposes of accounting as basic elements in business transactions. Through a gradual process the student progresses from the more simple to the more complex phases of recording business transactions. Ample practice for students is obligatory in order to develop the skill and knowledge of accounting procedure.

By the end of the course the student should have mastered the principles and practices of elementary accounting as applied to Business Management, and to have acquired sufficient skill to hold a position as assistant

## *School of Commerce and Finance*

---

keeper in a small business establishment. The knowledge gained in this course will help the student to become a better executive, and will lay the foundation necessary to pursue the more advanced courses in accounting.

Two semesters; 4 hours credit.

### *Intermediate Accounting (A1a-2a)*

An intensive course designed for those who wish to complete the entire first year's work in accounting during the second semester.

The subject matter is identical with that of Accounting 1-2.

Students entering the School at mid-year may take this course and in addition one other course. By carrying one additional semester course each year for three years, such students may graduate with the class which entered the previous September.

One semester; two evenings a week; 4 hours credit.

### *Corporation Accounting (A 3-4). Required for a degree.*

#### *Prerequisite: Accounting 1-2*

This course is a continuation of Elementary Accounting. The more difficult phases of general accounting are taken up and related primarily to transactions in partnerships and corporations. The course is intended for those entering the accounting field, and those interested in a further study of general business.

The course emphasizes records peculiar to partnership, corporation and manufacturing accounting. Special attention is given to the technique and importance of the balance sheet, the financial statement, and problems arising from capital stock transactions. Numerous other important items are studied. Problem work is demanded each week.

Students who complete this course should be qualified to handle satisfactorily a set of books for a partnership or a corporate organization.

Two semesters; 4 hours credit.

### *Specialized Accounting (A-5)*

#### *Prerequisite: Accounting 3-4*

This course is devoted to a study of the application of accounting principles and procedure to various types of business, and is primarily intended for students who are preparing for accounting as a career.

Throughout this course the student views the principles of accounting applied to specialized business conditions. A knowledge of the adaptation of accounting principles to definite and concrete situations is essential to the educational processes for the practice of accounting.

The course deals with fundamental problems and systems of accounting which are peculiar to various types of businesses. Each section of the course is so arranged that the student comes to have a comprehensive grasp of the accounting features of the business under consideration, and to appreciate the outstanding managerial and administrative problems involved.

One semester; 2 hours credit.

### *Administrative Accounting (A-6). Required for a degree.*

#### *Prerequisite: Accounting 3-4*

This course gives a general acquaintance with the use of standards and records, and their relationship to the general problems of management and administration of a business.

The instruction presents the types of records and accounts needed to

furnish executives with the necessary information for an adequate intelligent control of a business. Major emphasis is given to the elementary principles underlying costs, budgetary control, management ratios and general factors of executive and internal control.

One semester; 2 hours credit.

### *Advanced Accounting Problems (A 7-8)*

*Prerequisite: Accounting 3-4*

This course is intended for those who desire added preparation in accounting work and for those who intend to take the C.P.A. examination. The subjects in this course are treated in greater detail and in a more advanced manner than in the Accounting 1-2 and 3-4 courses. Extensive use is made of problems which are so arranged and graded as to aid the student in the development of the ability to analyze, interpret and make application of accounting principles and practices to the more complicated situations which arise in professional accounting work.

Two semesters; 4 hours credit.

### *Cost Accounting (A 9-10)*

*Prerequisite: Accounting 6*

The object of this course is to acquaint the student with the theory and practice of industrial cost accounting as related to the control of a business or industrial enterprise. The students in this course will learn the methods of determining the cost of a product and the collecting and recording of essential cost data. Particular attention is given to the analysis, budgeting and allocation of expenses and maintenance charges. Through the use of case and problem materials, the student becomes thoroughly acquainted with the methods of accounting for materials, labor and burden, with special emphasis on the preparation of periodical cost reports and development and installation of cost systems.

Two semesters; 4 hours credit.

### *Auditing (A 11-12)*

*Prerequisite: Accounting 3-4*

The object of this course is to present the principles of Auditing and the conditions under which the work is performed in as concrete a manner as possible, so that the student may develop from his study a working technique. The course endeavors to keep before the student at all times the purpose for which he is to be engaged as an auditor and the practical benefits that may be expected of him from his clients. The student is urged to analyze constantly his efforts from the viewpoint of performing a real service to the accounting profession and not merely to carry out a stereotyped program.

The case method of instruction is utilized throughout the course. Typical cases, problems and questions have been prepared and selected for the purpose of enabling the student to pass through the stage of experimentation before being thrown upon his own resources.

The course takes up the verification of original records represented by ledger accounts as they appear on the balance sheet and on statements of income and profit and loss. Major attention is given to the principles and procedure to be observed in rendering of the report. Part of the course takes up a study of cases involving the detection of defalcations, and clearly places before the student the principal methods employed by defaulter to secure cash or its equivalent wrongfully and to conceal shortages.

Two semesters; 4 hours credit.



### *Income Tax Accounting (A-13)*

The aim of this course is to give the student a comprehensive grasp of the principles and procedure underlying state and federal income tax accounting. The course is designed to meet the needs of business men, lawyers, accountants, revenue agents and tax officials.

Study is made of the administration of federal and state tax laws, the application of the federal laws to the incomes of individuals, partnerships, corporations and estates, and a brief but somewhat similar treatment of the state income tax laws. Very little time is given to a study of the regulations, a major part of the time being devoted to the preparation and filing of returns, the handling of abatement, refunds, credits, etc.

One semester; 2 hours credit.

### *A. Problems (A-11)*

*Prerequisite: Accounting 7-8*

This course naturally follows Accounting 7-8 and is primarily adapted for those students who expect to become applicants for the certificate of Certified Public Accountant.

This study affords a review of the more advanced phases of accounting practice. Special problems selected from recent C.P.A. examinations and professional practice form the basis of the course.

The aim of the course is to aid the student in co-ordinating his knowledge of accounting principles with the application of those principles to practice through the solution of the most difficult C.P.A. problems. The student receives a most valuable training in analytical and synthetical thinking.

One semester; 2 hours credit.

### *A. Review Quiz (A-15). (Given in Boston only)*

*Prerequisite: Accounting 7-8; 11-12; 14, or equivalent in professional accounting experience.* Only those will be admitted to this course who have sufficient preliminary training, experience, ability and promise of success in the profession to profit from the work.

The aim of this course is to give the prospective applicant for the certificate of Certified Public Accountant an intensive yet thorough review of those subjects required in the C.P.A. examination. The course is highly intensive and difficult, and only those of exceptional ability and good technique should attempt it. Each week a typical C.P.A. examination during a four-hour period is given as a part of the training process. These examinations are rigidly graded and returned to the student with complete criticisms as to weaknesses which have been revealed. Insofar as possible actual C.P.A. examination conditions are observed in the conduct and grading of these examinations so that the student may become accustomed to the examination process. The course emphasizes independent thought and creative analysis in the solution of the problems.

The subjects of Auditing, Accounting, and Law are reviewed. Students are required to enroll for the work in all three subjects unless they can give evidence of having satisfactorily passed the subject in the C.P.A. examination and have met the Board requirements in the subject from which they wish to be excused.

Credit toward Master's degree only; 4 hours.

*Note:* Schedule and other information is contained in special announcements sent upon request.

## BUSINESS LAW (L)

### *Law of Contracts and Agency (L-1). Required for a degree.*

This course aims to acquaint the student with the fundamental contractual relations in business. A knowledge of the principles of law such as is presented in this and the other law courses will enable the business man to formulate sound judgments in the solution of business problems. When legal counsel is needed he will be in a position to sense the need, and if necessary secure competent legal counsel.

In this study the student becomes acquainted with such basic subjects as the various classes of contracts; offer and acceptance; consideration; validity of assent, legality; discharge; appointment of agents, ratification of an agreement with an agent; authority and liability of the agent; termination of agencies.

Much of the work of this and the other courses in law is based upon the study and the discussion of their relationship to business problems.

One semester; 2 hours credit.

### *Law of Business Associations (L-2). Required for a degree.*

#### *Prerequisite: Law 1*

The association of men in business enterprises is necessary and in many cases is the successful factor of the enterprise. This course endeavors to acquaint the student with the legal factors involved in the formation of business associations.

The first part of the course takes up the study of partnerships, including partnership contract; capital and property; mutual rights and obligations of partners; and dissolution of partnership.

The second part of the course takes up corporation formation; stockholders; directors and officers; powers of corporations; foreign corporations; and dissolution of corporations.

One semester; 2 hours credit.

### *Law of Commercial Papers (L-3). Required for a degree.*

#### *Prerequisite: Law 1*

The same purposes and aims that underlie the course in contracts are kept before the student in this course. The close relationship of law to business problems makes this and the other law courses real assets in the business training of the student. This course takes up a study of bills of exchange and carriers, sales, and the various types of negotiable instruments and commercial papers.

One semester; 2 hours credit.

## DISTRIBUTION (D)

### *Merchandising Principles (D-1). Required for a degree.*

The aim of this course is to aid the student in building up a theory and understanding of the basic principles of the distribution of commodities.

The course introduces the student to a study of the objectives of merchandising and the results to be derived from aggressive, economic sales efforts. The student differentiates between types of commodities and analyzes the motives which prompt consumers to buy various types of goods. Attention is given to the methods of selecting and handling goods. Throughout the course the student sees clearly the procedure in handling significant merchandising problems.

One semester; 2 hours credit.

*Distribution Problems (D-3-4). Required for a degree.*

*Prerequisite: Distribution 1*

The object of this course is to present recognized and accepted methods of distribution through the use of actual cases and problems selected so as to cover the entire field. Instruction is based wholly upon problems and does not duplicate materials covered in Merchandising Principles.

The study includes the activities of retail and wholesale merchants, manufacturers' sales organization, the various agencies engaged in the distribution of raw materials, and other means of facilitating and promoting the sale of merchandise.

The course leads the student through a survey of distribution that is original, different, and stimulating. It suggests new ways of solving old problems and of locating sources of wastes that have passed unnoticed. Two semesters; 4 hours credit.

*Advertising Principles (D-5)*

This course presents the relationship which exists between advertising and selling. The factors which enter into the control of human action in buying and selling are analyzed. The student gains an understanding of the psychology used in advertising and its related fields, and learns how to apply advertising principles in practice.

The course emphasizes the place and function of advertising in distribution. Much time is devoted to the determination of the buying motives and wants of human beings, and of the most effective appeals that can be used in stimulating a ready movement and distribution of commodities. A study is also made of the various methods and media of advertising and of their application to particular types of business through actual problems and cases.

One semester; 2 hours credit.

*Applied Salesmanship (D-6)*

The aim of this course is to demonstrate the principles and methods used in successful salesmanship. The course emphasizes the application of principles through the analysis of typical sales situations and through participation in actual sales demonstrations. The student finds much in the course that will help in the development of those personal qualifications of a salesperson of a sales nature which contribute so largely to success in sales work.

Two objectives are sought in this course, namely (1) the broadest possible personal development of the student, and (2) the acquisition of knowledge and of skills in the selling processes. To achieve these objectives the student is familiarized with the steps in the sales process, and the relationship embodied in the process. The course is primarily designed to aid the student in the development of quick and logical thinking and the cultivation of character and personality as vital forces and aids in effective sales work.

One semester; 2 hours credit.

*Distribution Management (D-7)*

*Prerequisite: Distribution 3-4, 5, and 7*

This course comprises a study of distribution from the manager's point of view and covers the problems of market management in various types of business.

The course takes up the study of the analysis of distribution situations; the formulation of distribution programs including sales and advertising campaigns; and a study of the organization and co-ordination of distribution.

tion activities and their control. Throughout the course much problem case material is used.

One semester; 2 hours credit.

### *Traffic and Transportation (D-9)*

This course presents a general survey of the agencies and the problems of traffic and transportation in present day business. Major attention is given to transportation in its relationship to distribution. The course includes a study of local and long distance transportation agencies including such as the railways, water and ocean carriers, and public highways. A study is also made of the types of services performed by these various carriers and how these services may be most effectively utilized by business enterprises. Problems which indicate the co-ordination and control of traffic and transportation are assigned as part of the work of the course.

One semester; 2 hours credit.

## ECONOMICS (Ec).

### *Business Economics (Ec-1). Required for a degree.*

This course aims to give an understanding of the foundational principles and organization of modern business and an acquaintance with the standing economic and financial problems of the day. Economic principles presented in this course is recognized as a foundation upon which the science of business is built. The course endeavors to give the student an idea of the problems and forces which most vitally concern business and to furnish the essential equipment of a well-educated modern business man.

Such important economic topics as consumption, distribution of wealth, production, money and banking, labor, rent, capital, wages, interest and profits are carefully considered.

One semester; 2 hours credit.

### *Problems in Business Economics (Ec-3-4). Required for a degree.* *Prerequisite: Management 1-2 and Economics 1*

The aim of this course is to present the most important economic principles in their application to current business problems. The course is a continuation of Economics 1 and will be particularly valuable to the student of business in utilizing economic principles in the organization and management of business affairs.

Problems and cases representing such subjects as foreign commerce, business cycle, trusts, labor problems, governmental control, relation of money and prices, price deflation and stabilization, transportation; socialism and social reform are discussed and analyzed in class.

Two semesters; 4 hours credit.

### *Investments (Ec-5)*

This course is offered in co-operation with the Investment Bankers Association of America and is designed for those who are just entering the field who contemplate entering the investment banking and security business in any of its branches. It is also most valuable to those who wish to be better informed as to the investment of their own funds.

Instruction is based upon a first-hand study of the various types of securities, such as corporation, government, municipal, public utility, industrial and real estate bonds. These various securities are studied through an analysis of carefully selected cases and problems.

One semester; 2 hours credit.

## *School of Commerce and Finance*

*Business Statistics (Ec 6-7). Required for a degree.*

*Prerequisites: Economics 1 and Accounting 6*

The purpose of this course is to aid the student in the development of the use of statistical methods and their application to business problems. In order that the business man may determine current policies, he must have an appreciation of the developments which are likely to take place in the coming months. A forecast calls for the essential facts of the past, as well as a comprehensive view of the present. An analysis of statistics graphically presented will materially assist the executive in a study of probable future trends. With the aid of graphic charts he can not only draw sound conclusions, but is able to present facts more easily and accurately to his associates and superiors. In addition to a study of collection, presentation, and analysis of data, this course emphasizes the business cycle, the use of graphs in presenting business data, and statistics as applied to the sales, purchasing, production, accounting, and financial departments. Special attention is given to the use of statistics in presenting facts for policy making.

Two semesters; 4 hours credit.

*Government and Business (Ec-8)*

The many relationships which exist between a business man and his government are presented in this course. The relations of a man to a business and of business to government are important considerations with which the business man must reckon. The course gives a review of the activities of the various government departments which are engaged in promoting business and which may be effectively utilized by the business executive.

Much time is devoted to a consideration of problems involving the relationship of government to labor, taxation and finance, foreign affairs, business associations, and education.

One semester; 2 hours credit.

## ENGLISH (E)

*English for Business (E 1-2). Required for a degree.*

The effective use of English is an integral part of the modern business man's training. In his daily conversations and written communications, the business executive must constantly bear in mind the accepted standards of business usage. Business English is not distinct from literary English, but its application demands a different method of presentation.

This course aims to develop the student's command of the language so that he may express his ideas and opinions clearly and forcefully. Oral English is regarded in this course as of equal importance with written. Individual requirements of the student are carefully analyzed, and his weaknesses corrected.

Clearness of exposition and forceful presentation of the subject material are the qualities which are stressed throughout the course. These qualities of expression are an essential part of the successful business man's equipment.

In the second half of the course, the business letter is emphasized. Here, more than in any other field, special technique is needed.

As far as possible all the written and oral reports will be related to actual business literature and problems. The selection of assigned readings will include magazine articles and books which broaden the student's background and give him a keener insight into business life and business literature.

Two semesters; 4 hours credit.

*Business Reports (E 3-1). Required for a degree.*

*Prerequisite: English 1-2 or equivalent*

The course gives the student a training and experience in the analysis of business problems and in the preparation and presentation of oral and written materials in the form of reports. The preparation of this subject matter for a business report develops the habit of keen analysis and sound judgment. The increasing use of reports make it necessary that just executives be qualified to present in an able and forcible manner their conclusions, and recommendations upon the many problems arising from the daily experience of the executive.

Throughout the course, students will be asked to present oral reports to the class and to be prepared to defend the conclusions and recommendations of their reports. In advance of the oral presentation, the report must be presented in writing and an abstract prepared for use in the oral presentation. Emphasis is placed upon quick and accurate presentation of facts, the proper selection of words to convey specific meanings, the breaking down of the habit of carelessness in writing, and the technique and construction of the business report.

Two semesters; 4 hours credit.

## MANAGEMENT (M)

*Business Organization and Management (M 1-2). Required for a degree.*

This course is designed as a descriptive survey and outline of the types of activities of the various departments of a business, their relation to each other and to the business as a whole. It is planned that a broad perspective shall be given of the factors which make up operation and management of business and which are more completely studied in the more advanced courses, and how important these factors are to the whole organization and working unit of the enterprise.

Attention is given to the social and economic factors involved in the organization and operation of a business enterprise, the problem of organization, the promotion and financial management, and the use of keeping of records as a matter of control. As the course progresses the student becomes acquainted with the major functions of the various departments and the relation of management to those functions.

The course serves as a vocational finding and orientation course for students who have not definitely settled the choice of their business vocation.

Two semesters; 4 hours credit.

*Financial Management (M 3-4). Required for the degree.*

*Prerequisite: Management 1-2*

The work of this course presents those problems of financing a business enterprise which actually arise in the average sized industrial and business concern whether of the corporate or non-corporate type. The financial problems of the small as well as the large organizations are studied.

The course aims to stress those underlying principles of finance which have stood the test of the best practices and which have been approved and endorsed by business and financial organizations.

Numerous problems selected from actual financial experiences form the basis of much of the classroom work. Reports are analyzed to show various aspects of financial policies and how these policies operate in specific cases. These problems are designed to acquaint the student

## *School of Commerce and Finance*

financial management as involved in the establishment and launching of enterprise, the raising and maintaining of capital, the management of income and financial operations, and the causes, the handling of, and the remedies for financial difficulties.

Two semesters; 4 hours credit.

### *Psychology in Business (M-5). Required for a degree*

This course consists of a brief survey of the manner in which the human mind works in business relationships. An understanding is given of the causes underlying human behavior, of the analysis and direction of the student's own activities, and of the approach to business problems and situations. Problems taken from the field of marketing, personnel management, and industrial situations will be discussed. The course is of especial value to those occupying executive positions involving the handling of personnel, and for those engaged in sales and advertising work.

One semester; 2 hours credit.

### *Purchasing (M-6)*

A study in this course is made of the functions of the purchasing and sales departments in the modern industrial and commercial organization. The course has been prepared by and is conducted in co-operation with the National Association of Purchasing Agents. The New England Purchasing Agents Association also co-operates in giving the course.

The course is designed for those who are engaged in purchasing work, for those who desire to become purchasing agents, and for those who are taking a general business course and who should become familiar with the functions of all departments of a business.

Problems secured from the National Association of Purchasing Agents from various firms and of purchasing agents form the basis upon which the student builds a foundation and technique of sound methods and procedure in purchasing. The course gives a knowledge of principal sources, materials and methods show the importance of careful, judicious and economic buying as a necessity in business.

One semester; 2 hours credit.

### *Credits and Collections (M 7-8). Required for a degree.*

This course is conducted in co-operation with the National Institute of Credit and the local Credit Men's Association. The purpose of this course is to consider credit as a phase of business management intimately related to the manufacturer, the merchant, the ultimate consumer—in fact, to every man who concerns himself with selling or buying commodities. This course will show the possibilities of the credit department as a factor in running the business upon a sound financial and managerial basis.

The basis of credit granting and extension is taught in this course and insofar as is possible skill is developed in handling credit analysis. The student is shown how to use the various credit instruments and organization, and how the problems of collection and collection methods depend upon a sound credit-granting policy. Throughout the course problems are discussed which are usually found in the average credit department.

Two semesters; 4 hours credit.

### *Credit Analysis (M 9-10)*

#### *Prerequisite: Management 7-8*

This course aims to present the principles and problems of the economic factors underlying the assumption of a credit risk.

Instruction is based upon the analysis of credit interchange experience

and financial statements for the purpose of reaching judgments on credit risks. The course emphasizes the relation of credit risks to both general business and economic factors, including the business cycle, as well as the symptoms of credit worth as displayed by the trend of general business conditions with relation of the business to those conditions, and the individual's enterprise reaction in business and financial policy. Further emphasis is given to the relationship of credit to working capital management and business budgeting.

Two semesters; 4 hours credit.

*Distribution Management (D-7)*

*Prerequisite: Distribution 3-4, 5 and 7*

(See Distribution 7 for description of course. Page 53.)

*Management Problems (M 11-12)*

*Prerequisites: Accounting 6, Distribution 3-4, Economics and Management 3-4*

This course presupposes a knowledge of the fundamentals of business organization and management and the details of management as applied to the various departments of a business enterprise. The emphasis in this course is directed mainly to the problems of the operation and management of the business organization as a unit, and to the administrative problems.

Much of the work of the course is based upon the analysis of actual problems and situations drawn from the experiences of business organizations. The fundamental weakness and difficulties of these problems are presented with a view to developing in the student the ability to analyze present solutions, and make recommendations for remedies and improvements. These problems give attention to the human element in industry and the personnel relationship in management; to the control of production; to the problems of wage systems; and to the factors of management as they relate to manufacturing methods, standardization and simplification of product and budget control of activities.

The course also gives the student a view of the problems of co-ordination of production with sales, finance, purchasing, and transportation, and the elements entering into master planning.

Two semesters; 4 hours credit.

## RESEARCH AND THESIS (R)

*Individual Research (R-1). Required for Master's degree.*

Candidates for the Master's degree are required to select a problem for individual study and research in addition to their thesis. This study must be on some problem selected from the field of Management, Distribution, Accounting, Finance or Statistics, and must be presented in the form of a written report. Frequent conferences are required with the faculty advisor.

Two hours credit.

*Individual Research (R2-3). Elective for Master's degree.*

Candidates for the Master's degree may elect with the approval of the Dean and the Committee on Master's degrees an individual research problem in addition to the study required under Individual Research (R-1). This problem is to be chosen from one of the fields of study either in the required or elective courses for the degree. Frequent conferences with the faculty advisor and a written report are required.

Four hours credit.



## *School of Commerce and Finance*

---

### *Credit Research (R-4)*

*Prerequisite: Management 7-8 and 9*

Students who are working for the Senior Certificate of the National Institute of Credit are required to present a thesis on some problem of credit research. In co-operation with the Department of Research of the National Association of Credit Men and the National Institute of Credit. This School offers a special opportunity for those wishing to carry on research study in the field of credit.

Frequent conferences with a faculty advisor will be compulsory, and regular reports as to the progress of the study must be made to the Director of the Department of Research of the National Institute of Credit. Those desiring to take up special study along this line are requested to confer with the Dean frequently as to the progress of the study. The completed study must be approved by the Research Department of the National Institute before credit for the work will be accepted by the School.

The study must be completed within two semesters; 2 hours credit.

### *Thesis (R-5). Required for a B.B.A. degree.*

All candidates for the Bachelor of Business Administration degree are required to submit a thesis in accordance with the following conditions:

- a. The subject must be approved by the Dean not later than November 1 of the senior year.
- b. The completed outline must be submitted to the faculty advisor not later than December 1 of the senior year.
- c. The completed thesis must be presented in unbound form to the Dean, or the Director in case of the Divisions, not later than April 15 of the year in which the candidate expects to graduate. Upon approval of the thesis by the Committee on Theses, the candidate is required to present to the School two bound typewritten copies of the thesis for permanent filing.
- d. The thesis is expected to meet the equivalent of the work required in a full year course and to represent at least 250 hours of systematic work in preparation and writing of the manuscript.

Students are advised to begin their thesis during their junior year so as to be able to devote their summer months prior to the beginning of their senior year to this work. By so doing the load of the senior year may be lightened.

Four hours credit.

### *Master's Thesis (R-6). Required for the Master's degree.*

For conditions under which this thesis is to be submitted, see page 39 under the heading "Requirements for the Master's Degree."

This thesis is expected to meet the equivalent of the work required in at least three half-year advanced courses. The thesis should represent research and investigative work in a specialized field and should indicate the student's ability to analyze a business situation and to apply fundamental principles to the solution of the problems involved.

Six hours credit.

# ADMINISTRATIVE REGULATIONS

## APPLICATION FOR ADMISSION

Applications for admission to the School should be filed early as possible in order that the case of each applicant may be thoroughly investigated and his status definitely determined before the opening of School. In every instance a fee must accompany the application blank. On account of large enrollments, it has been found necessary to limit the size of the entering class; for this reason, also, it is vital that those who wish to be assured of admission to the School, file their applications well in advance of the opening date.

## REGISTRATION

Before attending any classes, each student should present himself at the School office to file such registration blanks as may be required, giving such information as may be needed for the University records together with a statement of the courses he is authorized to pursue. To complete registration a student should pay the required tuition and such other fees as are necessary before beginning attendance upon classes.

Owing to the delay each year on the part of the student and the consequent rush on the opening night, those desiring admission are requested to register during the two weeks previous to the opening of the School.

It is of greatest importance that students attend the class sessions from the opening night and receive credit therefor. After the application blanks have been filed in the School office, letters have to be written and credentials have to be obtained and acted upon before the student's status can be determined. This necessarily requires considerable time. Manifestly, students should not wait for the status report but should enroll and commence work at the beginning of the School year. Late registration for those unable to enter at the opening of the school year will be permitted at the discretion of the Dean, or the Director in the case of the Divisions.

Students who have preference regarding class sections are advised to register early. A limited size of sections and class

on facilities make it necessary to close further registration soon as a section is filled.

## THE SCHOOL YEAR

The School year is thirty-four weeks in length, exclusive of time allowed for vacation, and is divided into two semesters of seventeen weeks each. The last week of each semester is devoted to examinations.

## ATTENDANCE REQUIREMENTS

The student must attend at least one-half of the sessions of a course in order to be permitted to take the examination therein. No exception is made to this rule.

A student who attends at least three-fourths of the sessions of a course is entitled to take the examination therein and to pass the same if a grade of 60 per cent or better is obtained.

A student who attends between one-half and three-fourths of the sessions in a course must furnish satisfactory excuse to the Dean, or the Director in the case of the Divisions, for the absences under three-fourths in order to be permitted to take an examination therein and further, a grade of 70 per cent must be obtained in order to pass in such examination.

In order to receive credit for attendance a student must be present in the classroom during the entire period unless, upon satisfactory excuse, presence for a shorter period is accepted by the Dean, or the Director in the case of the Divisions.

## TERM WORK

Assigned work turned in late will be graded down in accordance with the basis determined by each individual instructor.

All assigned term work for which credit is desired must be turned in to the instructor before the final grades for the course are reported to the School office.

In courses where term work is required, the student must obtain a passing grade (60 per cent) or better in such work in order to receive credit for that course.

The School will not accept incomplete work in an assignment. The full assignment for a specific date must be turned in.

Not less than 10 per cent nor more than 30 per cent will be

deducted from an assignment lacking form, arrangement, structure, and good spelling. Students persistently doing poor work in this respect may be required to complete additional study in English composition.

## EXAMINATIONS

One final examination is regularly given in each course at the close thereof.

All students are expected to present themselves for examinations in all subjects for which they are registered at the first examination held therein. In case of excuse by Dean or the Director for proper cause from any examination they may take the next examination regularly scheduled for such subject.

*Under no circumstances will special examinations be given in any course.* Students desiring to take examinations not scheduled either take the regular scheduled examinations at the close of each course, or the regular make-up examinations regularly scheduled.

One make-up examination is regularly given in September of each year in all junior, sophomore and freshman subjects. Moreover, a student may take as a make-up any examination regularly given in the course in which he has failed, if so conditioned. No make-up examinations will be given in the senior subjects which are completed in the spring. One make-up examination will be given in those senior subjects which are completed at mid-year.

A student who fails in a final examination in a given course receives credit for only 60 per cent even if he obtains a higher grade in a make-up examination in that course.

If a student, for good cause, does not take the examination given at the close of a course, he may be permitted to take it any time thereafter when an examination in that subject is regularly scheduled; and, since that will be his first examination therein, he will receive full credit for whatever grade he attains.

The receipt of a passing mark in a course precludes a student from another examination therein.

A fee of two dollars (\$2.00) is charged for each condition examination taken by a student. This sum must be paid over before the date of the examination and no man will be admitted to any condition examination until the fee has been paid.

aid in full. Students desiring to take condition examinations should report to the School office to make necessary payments and to receive admission cards to the examinations.

In order to be permitted to take an examination in a course, the student must qualify in attendance. (See attendance regulations.)

Failure in a make-up examination or in the term work of a course requires the student to repeat the course involved in its entirety.

### TESTS

In all courses a system of tests is maintained. Unless otherwise announced by the instructor, one test is regularly given in each half-year course and two tests are given in each full-year course.

In each test a maximum credit value of ten points is obtainable toward the student's final examination grade. In half-year courses the remaining ninety points are obtainable in the final examination given at the conclusion of the course. In full-year courses the maximum credit obtainable in the two tests is twenty points, the remaining eighty points being obtainable in the regular final examination given at the conclusion of the course.

The passing grade on a test is six points. Students who receive less than six points in a test or who fail to take a regularly scheduled test, will be permitted to take a make-up test in the subject when it is given in a subsequent year, with the requirement that the corresponding test must be taken as the make-up.

A student who fails in a test receives credit on the make-up test for only six points even though a higher grade is obtained. If the make-up test is the first trial, the student will receive credit for whatever grade is obtained.

Students who receive a passing grade in a test will not be permitted to take a make-up test for the purpose of raising their grade.

## MARKS

The following system of grading is in use and applies both to examinations and term work:

A—90—100 inclusive—	(Superior work)
B—80—89	“(Good work)
C—70—79	“(Fair or average work)
D—60—69	“(Lowest passing grade)
*F—50—59	“(Conditional failure)
**FF—0—49	“(Complete failure)

\*Students receiving an “F” or conditional failure in an examination may remove the condition by repeating the examination when it is next given or at the time of the condition examinations in September of the next year. Conditional failures (F) are not permitted for term or honor work. A student either passes or completely fails his term work. Complete failure of term work means repeating the course in its entirety.

\*\*A complete failure (FF) in an examination may be made up only by repeating the entire course including term work, examination and attendance.

Students are required to make a general average of “C” in order to be eligible for a degree. Students may secure the average grade at the School office at any time.

Deficiency reports are issued twice a year, on or about December 1 and April 1.

Grade reports are mailed or given out to the students from the School office. Under no circumstances are grades given out over the telephone.

## REMOVAL OF CONDITIONS

Credit cannot be given in the same subject toward the removal of entrance conditions and toward the degree diploma or certificate. A student who fails on account of School of Commerce and Finance conditions to receive his degree in due course will be permitted to remove his conditions and receive his degree not later than two years after the graduation of his regular class, except by special authorization.

A conditional failure (F) in an examination must be cleared not later than September of the year following that in which the failure occurs.

Upon the student rests the responsibility of ascertaining academic and collegiate conditions and what must be done to remove them.

## PROMOTION

Promotion from one class to another, on the six-year program basis, is contingent upon the student having satisfactorily completed by the opening of the school year in September the number of semester hours of classroom work, designated below. (Business experience and the thesis are not included.)

From Freshman to Sophomore	8 hours
From Sophomore to Lower Middler	20 hours
From Lower Middler to Upper Middler	32 hours
From Upper Middler to Junior	44 hours
From Junior to Senior	58 hours

Promotion on the B.C.S. degree or five-year basis is modified from the above plan as follows:

From Freshman to Sophomore	8 hours
From Sophomore to Middler	20 hours
From Middler to Junior	32 hours
From Junior to Senior	46 hours

A student cannot be classified as a Senior unless at the beginning of the senior year all admission requirements as a regular student have been met.

A student who fails to pass a sufficient number of courses during two successive years to enable him in the opinion of the Committee on Administration to proceed to a higher class, may be dropped from the rolls of the School.

A student will not be permitted to pass in any course unless passing grade has been received in both the final examination and the term work. This applies regardless of the average of the final examination and the term work grade.

## REQUIREMENTS FOR GRADUATION

In order to qualify for the bachelor's degree a student must

- Comply with the admission requirements as a regular student.
- Comply with and satisfactorily complete the course requirements for the B.C.S. or the B.B.A. degree outlined on pages 34 and 36 respectively.
- Meet attendance and other administrative requirements.

- d. Obtain a general average of "C".
- e. Present a satisfactory thesis, if a candidate for the B.B.A. degree.

*Note:* See page 38 for requirements for the Master's degree.

### GRADUATION WITH HONORS

Honors are based upon the excellence of the work performed by students in the School. Two honorary distinctions are conferred upon properly qualified candidates for the bachelor's degree upon graduation:

- a. High honors to those who complete all term work and examinations throughout their course with at least 80 per cent of A's and no marks below B.
- b. Honors to those who complete all term work and examinations throughout their course with at least 50 per cent of A's and of the balance 75 per cent of B.

These honors are subject to further conditions as follows:

- 1. To be entitled to honors a student must have completed a minimum of two full years of study in the School.
- 2. Courses credited by advanced standing whether by transfer or by examination will be eliminated in determining honors.
- 3. The work must be completed within the normal period of time of the prescribed curriculum.



## GENERAL INFORMATION

### HISTORY OF NORTHEASTERN UNIVERSITY

The incorporation of Northeastern University of the Boston Young Men's Christian Association in March, 1916, marked the culmination of a notable development. The University is the realization of an ideal carefully worked out and persistently followed for many years. One of the first acts of endeavor of the Boston Young Men's Christian Association, after its establishment in 1851, was the opening of evening classes for young men. It was not, however, until 1906 that the actual foundations for the University were laid. The larger number of courses offered required a more comprehensive organization. Gradually the courses were grouped under separate schools, and additional courses were added to complete the curriculum of each school.

The School of Law, established in 1898, was incorporated in 1904 with degree-granting power. Founded in 1907, the School of Commerce and Finance was authorized in 1911 to confer the degrees of Bachelor and Master of Commercial Science. The School of Engineering was opened in 1909 and given power in 1920 to confer the following degrees: Bachelor of Civil Engineering, Bachelor of Mechanical Engineering, Bachelor of Electrical Engineering, and Bachelor of Chemical Engineering. The School of Business Administration was opened in September, 1922, and has the right to grant the degree of Bachelor of Business Administration. In addition, the Evening Polytechnic School, the Huntington School for Boys, the Northeastern Preparatory School, the Automotive School, and the Department of University Extension are conducted under the administration of the University. In March, 1923, the University was granted general degree-granting power by the Massachusetts Legislature. Divisions of the University offering evening instruction have been established at Worcester, Springfield, and Providence.

### LIBRARIES

The students of the School in Boston have available for their use the reference library of the University, consisting of several thousand carefully selected volumes. In this library

are necessary books on business administration, accounting, distribution and management for the use of the students of the School. The general library of the Boston Y.M.C.A. is available for student use. Current business periodicals and the leading business services are also provided. The reading rooms of the library are open from 9.00 a.m. to 10.00 p.m. daily.

In the Divisions at Worcester, Springfield and Providence libraries are being built up with the most modern books upon business subjects.

All members of the School in Boston, whether resident or non-resident students, have the privilege of taking books from the Boston Public Library and of using this Library for general reference and reading. The same privilege is accorded the students of the Divisions for the use of the Libraries in their respective cities.

### EXPENSES FOR BOOKS AND MATERIALS

The expense for books and materials varies according to the course or group of subjects taken. The minimum is approximately \$3 and the maximum about \$20 a year.

### NOTIFY THE OFFICE IMMEDIATELY

Of change of address.

Of withdrawal from any course—otherwise the fee for that course will be charged.

Of withdrawal from the School, giving date of the last lecture attended.

### PLACEMENT SERVICE

The School maintains in Boston and the Division of Placement Service for the purpose of assisting students and alumni in finding employment and positions offering large responsibilities and more attractive opportunities for advancement.

At the same time the School desires to render the most effective service possible to employers and corporations who are seeking qualified personnel for their businesses. This service is rendered with discriminating care and personal attention. It is at the disposal of every business and industrial concern in New England.

In recommending a student or a graduate for a position, the School gives careful and frank consideration to the ability, habits, character, and other qualities of the individual which may be essential to success. The School keeps accurate and scientific records of its students and graduates, and at all times is able to give actual facts concerning a student or a graduate.

Prospective students from a distance who contemplate a change of residence as well as change of employment in order to avail themselves of the opportunities of the School, are advised to write to the Dean at Boston, or to the Director of the nearest Division, for blank forms upon which they may apply for the Placement Service as a means of helping them locate a suitable position upon taking up their studies. Such students should be prepared to finance themselves for a period of four or five weeks while they may be locating desirable employment. Employers almost invariably insist on interviewing prospective employees before engaging them; hence, it is almost impossible to secure employment until one takes residence in the city.

No charge is made either to the student or to the employer for this Placement Service.

In addition to the Placement Service conducted by the School of Commerce and Finance, the Boston Y.M.C.A. conducts an employment department which is available to students without charge. This department, however, is in no way connected with the School.

## REGISTRATION OF CERTIFIED PUBLIC ACCOUNTANTS

In practically all states provision is made in the statutes for the registration of Certified Public Accountants. Examinations are held either under the supervision of the American Institute of Accountants or of the State.

In Massachusetts, under the provisions of the general laws, the following rules should be observed by applicants for the examination:

1. All applications must be filed with the Board of Registration, Room 145-A, State House, Boston, at least two weeks prior to the date upon which an examination is to be given.

2. To be registered as a Certified Public Accountant t applicant must have a general education equivalent t four-year course in a high school of recognized standi must have had not less than two years of practi experience either in public practice on his own accou or as assistant to a practicing public accountant a shall pass an examination in the following subjects:

*Accounting Theory and Practice*

*Auditing*

*Commercial Law*

If an applicant fails to pass the examination either Auditing or Commercial Law he shall be required take a subsequent examination only in the subject which he failed.

3. Applicants who are members of the Massachusetts I shall not be required to take the examination Commercial Law.
4. A fee of \$25 must accompany the application. The for re-examination in case of failure in all subjects \$25.

Students living in Rhode Island or other States desir to take the examination in such states should apply to proper authorities having in charge registration and examination.

## RELIGIOUS ACTIVITIES

Northeastern University is conducted by the You Men's Christian Association and, though non-sectari is thoroughly Christian in character. Students are cordia welcomed and urged to participate in all the activities of Y.M.C.A.—it is hoped that they will feel free to do so to largest possible extent. In connection with the vari departments of each Association an ample social a religious program is provided, so that all men should be a to find that type of activity in which they are most interest However, a student should not hesitate about entering t School because of religious faith, no attempt being made influence one to participate in any activities which are co trary to the tenets of his particular religion.

## SCHOOL ACTIVITIES

The worthwhileness of wholesome social activities among students is recognized by the school authorities, and students are encouraged to form organizations which will stimulate the various types of social activities. The evening school student usually finds the time which he can give to activities outside of his required work limited, and for this reason his program of activities must be selected with care and judgment.

## BUILDINGS

The School of Commerce and Finance is housed in the Y.M.C.A. buildings in Boston, Worcester, Springfield, and Providence. The locations of these splendid facilities are convenient in all cases to main lines of transportation and are near the heart of the business centers of these cities.

## PHYSICAL TRAINING

Each building has excellent facilities in the nature of gymnasiums, swimming pools, and other recreational privileges. School of Commerce and Finance men are urged to avail themselves of the opportunities for physical training. Men who are employed in office or indoor occupations and who are pursuing a strenuous evening program of training and study should plan to take some adequate and systematic program of exercise in order that they may not impair their health and that they may do the most effective work.

## REDUCED GYMNASIUM RATES TO STUDENTS

In order to bring the use of the gymnasium within the means of every student, special reduced rates are granted.

## OTHER RECREATIONAL OPPORTUNITIES

Other recreational opportunities of widely varied nature are offered in the form of billiard rooms, libraries, game rooms, social rooms, etc. The Y.M.C.A.'S in which the School is situated are equipped for almost every type of clean, wholesome, and wholesome activity of interest to men.

## ALUMNI CLUBS

### *Alumni Association (Boston)*

The Alumni Association of the School of Commerce and Finance sustains a vital interest in the School and the work of the University. Membership is open to any graduate of the School. A number of social and fellowship gatherings are held each year.

The officers for the year 1925-26 include: President, Robert Bruce '15; Secretary, Harold A. Mock '23; Treasurer, Harold N. Anderson '22.

### *Alumni Association (Worcester)*

The Alumni Association of the Worcester Division of Northeastern University includes in its membership graduates of the School of Commerce and Finance and the School of Law. Membership is also open to Alumni of other Divisions resident in Worcester. The purpose of the Association is to promote the interest of the University, the Alumni and the Student Body. At least two social gatherings are held each year.

The officers for the year 1925-26 include: President, Ernest Pardoe Cotton '20; 1st Vice President, Bartholor Joseph Murphy '20; 2nd Vice President, Edward August Lanigan '22; Secretary, Harold Lewis Dalbeck '25; Treasurer, Timothy Joseph Downey '23.

### *Alumni Association (Providence)*

Alumni of the Schools of Law and Commerce and Finance of the Providence Division have a well organized and active Alumni Association which meets regularly and is supporting the University in all School matters. The officers of the Association are: President, E. William Lane, C. and F. '24; Vice President, Joseph V. Broderick, Law '24; Secretary and Treasurer, Carl W. Christiansen, C. and F. '23.

### *Alumni Association (Springfield)*

The Northeastern University Alumni Club at Springfield was organized by graduates of the Schools of Commerce and Finance, and Law for the purpose of promoting social activities among the Springfield Division Alumni and to perpetuate a Northeastern spirit in Springfield and vicinity.

Membership in the club is open to all Northeastern University Alumni of all schools.

The officers of this Association are: President, Cornelius Crean '25; Vice President, Maynard O. Saunders '24; Vice President, Benjamin D. Novak '23; Vice President, Robert S. Terrill '25; Secretary-Treasurer, Basil J. Hunter

# REGISTER OF STUDENTS

## GRADUATE STUDENTS

Candidates for the Degree of Master of Commercial Science

### BOSTON

Bassett, Frederick M.	B.C.S. Northeastern	Boston
Bennink, Donald C.	A.B. Dartmouth	Lawrence
Biller, I. Edward	B.C.S. Northeastern	Boston
Collins, Basil S.	A.B. Harvard	Watertown
	L.L.B. Northeastern	
Everett, Albert E.	B.C.E. Northeastern	Everett
Glasheen, George H.	B.B.A. Boston University	Cambridge
Haskell, David L.	B.C.S. Northeastern	Boston
Hensel, Philip H.	B.C.S. Northeastern	Worcester
Oram, Willis B.	B.C.S. Northeastern	Everett
Phillips, Harold F.	B.C.S. Northeastern	Dorchester
Tsigas, Ioannis J.	B.C.S. Northeastern	Dracut

### PROVIDENCE

Kasper, Samuel	B.C.S. Northeastern	Providence
----------------	---------------------	------------

### SPRINGFIELD

Chapman, Wesley G.	B.C.S. Northeastern	Springfield
Sanderson, Mildred E.	B.A. University of N. H.	Greenland, 1

### WORCESTER

O'Leary, James A.	A.B. Holy Cross	Worcester
-------------------	-----------------	-----------

## CLASS OF 1926 — SENIORS

### BOSTON

A'Hearn, Clarence J., Dorchester	Noonan, George H., South Boston
Barrett, Francis T., Lynn	Noy, Richard D., Arlington
Billage, Maurice D., Dorchester	Pilaszek, Bogdan J., Mattapan
Blaher, William A., Hyde Park	Riley, John P., Lowell
Cohen, Abraham, Boston	Ronan, John C., Winthrop
Cole, George E., Taunton	Scott, Esther, Reading
Donahue, Arthur B., Dorchester	Smith, Earle H., Marblehead
Fluke, David, Lynn	Stewart, William F., Dorchester
Goldberg, Saul, Boston	Sullivan, Dennis F., Medford
Hindlian, James, Watertown	Sullivan, Howard K., Chelsea
Hitchins, Vernon B., Boston	Sullivan, Paul H., Lowell
Hoffman, Jr., Edward W., Dorchester	Susan, Fred M., Dorchester
Hume, Cecil S., Brookline	Tierney, Thomas F., Brighton
Kawadler, Henry, Roxbury	Tynan, Edward J., Lowell
Koerber, Arthur S., Dorchester	Trio, Ugo, Boston
Kruger, Joseph, Roxbury	Ware, Robert M., Waltham
Kwong, Hok Y., Boston	Whipple, Morton S., Dorchester
Mallonce, Thomas S., Revere	Willis, Raymond E., Boston
McKee, John A., Boston	Wilson, Ralph W., Lynn
Merrill, Stuart H., Boston	Wood, Benjamin F., Brighton

### PROVIDENCE

Allen, George J., Edgewood	Macomber, Clifford, Saylesville
Allen, John C., Edgewood	Martin, John L., Providence
Almond, Robert, East Providence	Morpeth, Harold, Eden Park
Almy, Howard, Providence	Owen, Robert J., Pawtucket
Baxter, James F., Providence	Regan, Francis E., Providence
Bethel, Lewis, Pawtucket	Truman, Harold, Providence
Halkyard, John R., Warren	Wilmarth, Louis R., Attleboro, Mass.
Jacobson, Henry, Providence	Wood, Albert V., Providence



## *School of Commerce and Finance*

### SPRINGFIELD

zberger, Max J., Springfield  
nett, Marion E., Springfield  
owske, Henry F., Westfield  
s, Mildred L., Springfield  
oll, Philip C., Agawam  
y, Catherine M., Springfield  
ch, Ralph E., Springfield  
dard, Ernest J., Springfield  
bs, Irving C., Springfield

Kimball, Harry P., Springfield  
Sargent, Henry E., Springfield  
Shaw, Arthur M., Springfield  
Trombla, Daniel C., Springfield  
Underdorff, William H., Holyoke  
Wallin, Arthur P., Springfield  
West, John G., Ware  
Wright, Frank W., Watertown

### WORCESTER

hamson, Charles R., Worcester  
m, Aaron, Worcester  
iskey, John F., Clinton  
elan, James M., Worcester  
kson, Victor H., Worcester  
ning, Thomas F., Worcester  
r, Samuel, Worcester  
nessey, Everett, Worcester  
s, Francis, A., Worcester

Kerr, Mary R., Worcester  
McHugh, Francis V., Worcester  
Meegan, Thomas R., Worcester  
Murphy, William F., Worcester  
Nordstrom, Arvid E., Worcester  
Ridler, Robert W., Worcester  
Rogers, J. Leon, Westboro  
Shannon, George F., Worcester  
Shea, Michael J., Worcester

### CLASS OF 1927 — JUNIORS

#### BOSTON

erson, Ernest T., Lowell  
ravecchio, Vito, East Boston  
ls, George D., Dorchester  
rk, Carl J., Arlington  
ke, Dana P., Dorchester  
wn, Edgar W., Everett  
ce, Robert A., Roslindale  
ahan, Edward D., Cambridge  
fe, Ralph, Roxbury  
nt, John S., Newton  
usen, Richard G., Roslindale  
en, Joseph L., Roxbury  
e, Dorothy E., Brighton  
way, John F., Somerville  
ahue, Thomas P., Jamaica Plain  
ovan, Helen D., Lynn  
rant, George W., North Weymouth  
rett, George T., West Somerville  
ara, Jacob, Nashua, N. H.  
cher, William R., Brookline  
dberg, Philip B., Roxbury  
x B. Greenstein, Haverhill  
nsen, Edwin, Dorchester  
warth, Richard J., West Lynn  
len, George J., Roxbury

Lalor, Abbie M., Mattapan  
Lowell, Lester S., Lynn  
MacKinnon, John W., Dorchester  
Madden, Francis B., Salem  
Marchetta, Peter, Waverley  
McMasters, John J., East Lynn  
Miller, Ross M., Boston  
Mosher, Harold E., Melrose  
Narazaki, Mataichiro, Boston  
Papadopoulos, Anastos M., Malden  
Paton, James A., Somerville  
Porter, Joseph, Revere  
Quimby, Willis D., Boston  
Reed, James W., Dorchester  
Scheff, William W., Boston  
Scott, Herbert W., Hyde Park  
Silverstein, Nathan, Roxbury  
Soderberg, John W., Fitchburg  
Sparkes, Charles M., Jamaica Plain  
Stebbins, Warren A., Dorchester  
Teeling, Thomas W., Salem  
Tracy, Henry A., Lynn  
Waldstein, Edward, Dorchester  
Westine, Waldemar F., Dorchester

#### PROVIDENCE

Aert, Maurice, Providence  
Blen, Arthur, Rumford  
Droll, John G., Providence  
Oke, Frederick, Providence  
Cesare, Anthony, Providence  
Der, Edward, Providence  
Cner, S. Frederick, Central Falls  
Egue, Herbert, Pawtucket  
Ege, Lander, Providence  
Des, Edward, Woonsocket

Kiernan, Joseph A., Providence  
Kingsford, Charles, West Barrington  
Logowitz, Kenneth, Providence  
McMullen, William J., Pawtucket  
Miner, Milton C., Rumford  
O'Leary, Leonard, Providence  
Reitman, Benjamin, Providence  
Rose, Harry J., Providence  
Rosenquist, Harold A., Providence  
Truman, Leonard, Providence

#### SPRINGFIELD

Encroft, Edward C., Springfield  
Cpenter, Amos B., Springfield  
Cen, Abraham D., Holyoke  
Con, Jr., Albert, Springfield  
Eckson, Gustaf W., Springfield  
Frell, Raymond C., Springfield  
Fhan, Edward J., Springfield  
Co, Robert M., Holyoke  
Odrich, Harley B., Springfield  
Enson, Carl W., Woronoco  
Fthaway, Raymond A., Springfield

Holbrook, Philip H., Agawam  
Kane, Eugene F., Indian Orchard  
Kingman, Frank H., Springfield  
McIntire, Clara L., Springfield  
Neth, Ralph D., Westfield  
Okamatsu, Masaaki, Tokyo, Japan  
Paine, Earl H., Springfield  
Porter, Arthur, Westfield  
Sullivan, Frank R., Springfield  
Tingley, Ada B., Longmeadow

# Northeastern University

## WORCESTER

Berlyn, H. Irving, Worcester  
Brennan, Walter D., Worcester  
Canavan, Frank D., Worcester  
Church, Harry L., Worcester  
Cooper, Caroline M., Worcester  
Crowley, John R., Worcester  
Dalbeck, Donald H., Worcester  
Ephraim, Samuel, Worcester  
Gage, Sidney V., Worcester  
Gwilliam, John E., Shrewsbury  
Harrington, Thomas, Worcester

Harris, Charles H., Worcester  
Kennedy, Everett M., Worcester  
Lichtenfels, William, Worcester  
Lund, Hilding, Worcester  
McKenzie, James R., Worcester  
Najamey, George E., Worcester  
Nelson, Verner W., Worcester  
Ober, John P., Worcester  
Scott, Philip R., Westboro  
Tynan, Joseph, Worcester  
Weinstein, Irving, Worcester

## CLASS OF 1928 — SOPHOMORES

### BOSTON

Andrews, Tracy D., Stoneham  
Ashburn, Ralph E., Lawrence  
Berger, Max, Chelsea  
Britton, John J., Waltham  
Brown, Arthur K., Springfield  
Brown, John M., Lowell  
Bruce, Charles E., Reading  
Bunshaft, Bennie, Haverhill  
Carlson, Carl T., Lowell  
Chase, Alexander J., South Boston  
Chipman, Charles F., Watertown  
Christie, Harry, Lynn  
Cohen, Benjamin, Cambridge  
Cotton, Leo, Dorchester  
DeWolfe, Elestus S., Cambridge  
DiSilva, Joseph, Somerville  
Eager, Arthur C., Dorchester  
Emery, Maxwell, Lowell  
Fairbanks, William W., Caryville  
Feeley, John R., Malden  
Fegan, Alice M., Haverhill  
Finch, Harold W., Dorchester  
Finn, Frank T., Dorchester  
Fleming, Archibald E., Jamaica Plain  
Garabedian, John K., Worcester  
Godes, Abraham J., Boston  
Grady, William G., Medford  
Halpern, Henry, Dorchester  
Harris, Edward J., Quincy  
Howarth, Albert E., North Attleboro  
Hvoslef, Sven J., Dorchester  
Jacobs, Allen, Mattapan  
Killam, Vera E., East Lynn  
Labzofsky, Samuel L., Haverhill  
Landers, Heman A., Boston

Lanigan, Joseph, Jamaica Plain  
Lowe, Walter M., Billerica  
Mahoney, Edward J., East Boston  
Matthews, George W., Lexington  
McGuire, James T., Boston  
McKean, Wendell E. B., Roxbury  
Menucci, Anthony, Boston  
Millner, Maynard, East Boston  
Mitchell, Daniel B., Roslindale  
Mitchell, James E., Lynn  
Mordecai, Daniel, Dorchester  
Mossgraber, Walter P., Cambridge  
Newberg, Charles A., Lynn  
O'Neill, John H., Lynn  
Peterson, Leo F., Allston  
Pierce, Jessie E., Brockton  
Policovsky, Arthur, Roxbury  
Prunier, Arthur J., Quincy  
Rae, Russell B., Jamaica Plain  
Rathburn, Morton S., Somerville  
Raynes, John F., Boston  
Ready, James E., Lowell  
Roberts, Jean L., Marlboro  
Robinson, James, Jr., Quincy  
Rubin, William, Chelsea  
Sanders, Arthur W., Readville  
Sawyer, Erald L., Watertown  
Shacter, Benjamin, Brockton  
Smidt, Barnet, Peabody  
Snider, Joseph, Roxbury  
Stevenson, John K., Cambridge  
Thomas, Robert L., Boston  
Williams, Sidney F., Roxbury  
Williamson, Roland, Dracut  
Witham, Karl L., Gloucester

### PROVIDENCE

Andrews, J. A., Saylesville  
Bain, James, Pawtucket  
Bibby, Robert, Attleboro, Mass.  
Butler, John B., Providence  
Callahan, William, Providence  
Carter, Melvin, Pawtucket  
Christopher, Robert, Providence  
Fairweather, Everett, Pawtucket  
Gavender, Joseph, Providence  
Goldenberg, Max, Providence  
Gove, Newton L., Pawtucket  
Grant, Donald V., Providence  
Hagan, John A., Providence  
Halpern, Harry, Woonsocket  
Hall, William, Providence  
Harrington, William C., Providence

Henry, Francis J., Pawtucket  
Hes, Wilfred, Fall River, Mass.  
Hunt, John R., Fall River, Mass.  
Kelly, Charles A., Providence  
Lombardi, Raymond, Warren  
MacInnis, Daniel N., Wickford  
Millman, David, Providence  
Mitchell, Joseph V., Pawtucket  
Parr, George E., Providence  
Patterson, George F., Cranston  
Ray, Arnold S., Providence  
Reilly, George E., Woonsocket  
Remington, Raiford W., Fiskeville  
Robinson, W. J., Pawtucket  
Schriever, Clarence J., No. Attleboro, Mass.  
Waldron, Cecil E., Attleboro, Mass.

# School of Commerce and Finance

## SPRINGFIELD

aws, Albert H., Mittineague  
 er, Franz L., Springfield  
 James A., Chicopee Falls  
 an, Edward F., Springfield  
 ll, Bernard N., Agawam  
 l, Irwin V., Springfield  
 es, Mabel E., Springfield  
 more, Francis L., Mittineague  
 on, C. Clement, Springfield  
 ll, Arthur H., Springfield  
 n, Vaughn, Chicopee  
 y, Archie L., Westfield  
 erald, Francis P., Chicopee Falls  
 oun, Grace J., Springfield  
 lin, Edmond A., North Agawam  
 g, Samuel, Mittineague  
 g, John M., Springfield  
 John L., Rondsville  
 ina, Frank J., Agawam  
 ngton, John J., Springfield  
 son, Winfield G., Springfield  
 haw, Herbert E., Springfield

Kane, Irene E., Mittineague  
 Ladoucer, M. J., Willimansett  
 Lancourt, Raymond E., Springfield  
 MacDonnell, Charles E., Springfield  
 McReil, Donald W., Springfield  
 Mulligan, Leonard F., Somersville, Conn.  
 Oehlers, Eugene V., Springfield  
 Oleaga, Victor, Springfield  
 Pannier, Raymond, Springfield  
 Rich, George F., Hazardville, Conn.  
 St. John, Alfred J., North Agawam  
 Santucci, Frank R., Palmer  
 Saunders, John A., Springfield  
 Shea, Christopher R., Springfield  
 Slayton, Albert E., Barre, Vt.  
 Smith, Harold T., Chicopee  
 Steere, Ruth M., Springfield  
 Sullivan, John J., Springfield  
 Talmadge, Arthur C., Springfield  
 Thompson, Paul C., Woronoco  
 Turkington, Elton B., Mittineague  
 Welch, Robert T., West Springfield

## WORCESTER

ovitz, Louis, Worcester  
 eely, Frederick D., Worcester  
 Nathan, Worcester  
 ow, Beryl S., Worcester  
 ck, Nathan, Worcester  
 oll, Marie, Worcester  
 ch, Robert S., Worcester  
 oran, Walter H., Worcester  
 blatt, Morris, Worcester  
 stein, Morris, Worcester  
 mont, Ralph, Worcester

Kelleher, William, Worcester  
 Levine, Benjamin, Worcester  
 Mars, Henry H., Worcester  
 Moriarity, Joseph P., Worcester  
 O'Rourke, Francis, Worcester  
 Stromberg, Lillian P., Worcester  
 Sullivan, Raymond P., Worcester  
 Sundeen, Ethel S., Worcester  
 Thurman, Solomon, Worcester  
 Westwood, Albert, Worcester

## CLASS OF 1929 — FRESHMEN

### BOSTON

bott, Arthur C., Boston  
 o, Joseph M., Hyde Park  
 es, Gerald R., East Foxboro  
 h, Forbes, Jamaica Plain  
 rt, Eli, Dorchester  
 strong, Carleton E., Atlantic  
 er, Harold E., Belmont  
 ett, Charles A., Lowell  
 e, Louis, Salem  
 i, William B., West Roxbury  
 cher, Leo G., Salem  
 egeois, Aldei, Lowell  
 lbury, Willard H., Watertown  
 rd, Ralph S., Lynn  
 unt, Berton D., Lowell  
 ce, Charles E., Boston  
 orpore, Edmund A., North Andover  
 y, Francis S., Jamaica Plain  
 lin, John, Roxbury  
 mbers, James E., Everett  
 usson, Lubin D., Belmont  
 uns, John E., Cambridge  
 hell, Harry B., Arlington  
 a, Elmer A., Nahant  
 aker, Ralph W., Somerville  
 ty, William F., Winthrop  
 oores, Edward, Boston  
 il, Walter F., Everett  
 ovan, John C., Lynn  
 oney, William B., Wellesley  
 gin, Charles F., Roslindale  
 blom, Eric W., Quincy  
 n, James G., Charlestown  
 een, Jacob, Revere  
 eberg, Philip, Dorchester

Fitzgerald, Paul H., Boston  
 Flynn, Frank J., Holyoke  
 Foley, Joseph P., Jamaica Plain  
 Fox, Charles E., Dorchester  
 Frawley, Anne G., Concord Junction  
 Gill, Henry A., East Boston  
 Gillespie, Hubert R., Roxbury  
 Glancey, Michael J., Barre  
 Gold, Julius S., Revere  
 Goldstein, David, Boston  
 Gooding, Charles A., Melrose Highlands  
 Goren, David, Dorchester  
 Gray, Justin V., Brighton  
 Grover, Milton, Dorchester  
 Hall, Beulah D., Newton  
 Hall, Walter S., Roxbury  
 Hann, Leslie C., Watertown  
 Harding, William C., Wollaston  
 Hart, Herbert F., Somerville  
 Henderson, Gilbert, Jr., Milton  
 Hershman, William S., Brookline  
 Hicks, Arnold S., Hyde Park  
 Higgins, Stephen S., Dorchester  
 Hill, Arnold, Dorchester  
 Huban, Thomas A., Roxbury  
 Hughey, Paul J., Cambridge  
 Hurley, Daniel, West Somerville  
 Jacobs, William M., Roxbury  
 Jeannotte, Albert E., Newtonville  
 Johnson, Eben, Norwood  
 Johnson, Melvin H., Reading  
 Johnson, Ralph B., Lowell  
 Kagan, Aaron, Mattapan  
 Kantor, Leon, Roxbury  
 Kaplan, Maynard, Dorchester

# Northeastern University

## BOSTON—Continued

Kayaloglu, Alexander J., Boston  
 Kearney, Norman R., Everett  
 Kelly, Osmond J., Quincy  
 Kelly, Paul H., Jamaica Plain  
 Kennedy, John H., Wollaston  
 Kiely, John F., Meriden, Conn.  
 Kline, Morris A., Roxbury  
 Kremer, Maurice, Haverhill  
 Kruse, Helmer B., Waltham  
 Kushner, Morris J., East Boston  
 Landry, George J., Lynn  
 Larsen, Eric P. H., Mattapan  
 MacKinnon, William D., Dorchester  
 MacPherson, Daniel A., Medford  
 Mahoney, Thomas F., East Boston  
 Mann, Frank F., Everett  
 Marie, Arthur L., Allston  
 Martell, James C., Wollaston  
 Mazer, Samuel, Chelsea  
 McClelland, John P., Watertown  
 McDermid, Collingswood C., Milton  
 Millard, Norman P., Newton  
 Mitchell, Frank A., Brockton  
 Mogilewsky, Alexander, Boston  
 Moran, Theodore A., Winthrop  
 Morganstein, Jacob, Dorchester  
 Mueller, Henry W., Roxbury  
 Osier, Malcolm E., Watertown  
 Partridge, Harry M., Peabody  
 Payton, Philip D., Lowell  
 Peat, John, Brooklyn, N. Y.  
 Penney, Robert F., Cambridge  
 Peterson, Charles G., Jamaica Plain  
 Pinkham, Forrest W., Walpole  
 Podolsky, Reuben S., Revere  
 Raisbeck, Robert S., Lynn  
 Raskind, Edward D., Roxbury  
 Reed, Helen M., Iaconia, N. H.  
 Remick, Robert B., Cliftondale  
 Roberts, Fred E., Hingham Center  
 Roper, William L., Roxbury  
 Rosenthal, Louis, Boston  
 Ross, Eli T., Boston  
 Ryan, James J., Roxbury  
 Ryan, Paul H., West Newton  
 Sanborn, Marguerite, Somerville  
 Santosusso, Christy, Revere  
 Sax, Louis J., Chelsea  
 Schimide, Walter A., Arlington  
 Seaward, Walter T., Wakefield  
 Seifer, Jacob D., Dorchester  
 Sharpe, Percy G., Newton Upper Falls  
 Silberg, Herbert M., Haverhill  
 Simone, Alvan A., Watertown  
 Skierski, John J., South Boston  
 Spalding, George C., Lowell  
 Spencer, Albert, Roxbury  
 Sprowl, Frederick A., Quincy  
 Stasio, Carlo J., East Boston  
 Stasio, Humbert J., East Boston  
 Stenberg, Henry G. W., Allston  
 Striesfield, Louis, Haverhill  
 Sullivan, John F., Charlestown  
 Symonds, Richard N., Salem  
 Thomas, Maxwell T., Roxbury  
 Tiernan, Frederick J., West Somerville  
 Tilley, Bert E., Wilmington  
 Todd, Charles F., Wollaston  
 Torrey, Jr., William F., Quincy  
 Trask, Theodore F., West Quincy  
 Triedman, Max B., Haverhill  
 Tulman, Morris, Chelsea  
 Walsh, John L., Watertown  
 Watts, George F., Boston  
 Weissman, Harry, Everett  
 Wood, Malcolm A., Boston  
 Youngberg, Gustaf E., West Roxbury

## PROVIDENCE

Ahlborg, Walter H., Providence  
 Bowden, Ronald A., Providence  
 Burdett, Clarence L., Cranston  
 Campopiano, Joseph A., Providence  
 Capron, Lewis T., Providence  
 Celani, Scondino A., Providence  
 Connelly, William J., Providence  
 Cummings, Jr., John E., Providence  
 Faneutt, Clifford G., Pawtucket  
 Field, George A., East Providence  
 Fiore, Gartano T., Providence  
 Follows, Henry G., Lonsdale  
 Fraser, William, Providence  
 Gleason, John W., Providence  
 Gourley, Hugh J., Warren  
 Holmes, D. Grant, Lakewood  
 Holt, Frederick J., Pawtucket  
 Hughes, George B., Warren  
 Keegan, Joseph C., Providence  
 Lamb, Philip R., Johnston  
 Larson, Lambert, Attleboro, Mass.  
 Leonard, Philip J., Providence  
 Logan, Charles N., Pawtucket  
 McCullough, Lester K., Saylesville  
 Magrath, Linwood H., Riverside  
 Menihan, Daniel H., Jr., Pawtucket  
 O'Connor, William A., Providence  
 Oldfield, Harold A., Saylesville  
 O'Neill, Joseph A., Pawtucket  
 Pofi, Americo M., Providence  
 Poole, Frank L., Edgewood  
 Pratt, Ernest J., Pawtucket  
 Reilly, Henry, Pawtucket  
 Ring, Henry W., Riverside  
 Rounds, Charles E., Jr., Warren  
 Rusby, Elmer B., Fall River, Mass.  
 Rusden, Ethelbert A., Jr., Providence  
 Scorpio, Florio, Providence  
 Scott, Thomas A., Pawtucket  
 Scripsack, Stanley, Providence  
 Shropshire, Edward F., Providence  
 Smith, Arthur L., Central Falls  
 Smith, Charles B., Providence  
 Southworth, Milton, Fall River, Mass.  
 Suttell, Allyn K., Pawtucket  
 Taylor, Everett A., Valley Falls  
 Thomas, Clifford A., Apponaug  
 Wales, Eldred B., Providence  
 Wark, Raymond H., Providence  
 Weir, Alexander A., Pawtucket  
 Whitten, Bertram, Providence  
 Woolworth, Louie M., Providence

## SPRINGFIELD

Acker, Fraser, D., Springfield  
 Allison, Ernest W., Springfield  
 Anas, George M., Springfield  
 Archibald, Charles B., Longmeadow  
 Atwood, Nelson D., Springfield  
 August, Alexander, Northampton  
 Baker, Allyn L., Springfield  
 Baldwin, Harold L., Springfield  
 Barrett, Paul C., Springfield  
 Bates, Moreton R., Springfield  
 Blinn, Holland L., Springfield  
 Bloom, Herman L., Springfield

## *School of Commerce and Finance*

### SPRINGFIELD—Continued

n, Mack H., Springfield  
 an, Merton A., Springfield  
 ury, Walter E., Springfield  
 erlain, Robert F., Springfield  
 onneau, Joseph A., West Springfield  
 an, James E., Middletown  
 r, Edward J., Springfield  
 s, John F., Springfield  
 y, Arthur F., Springfield  
 s, Allan M., Springfield  
 ingham, Henry A., Holyoke  
 r, William F., Springfield  
 s, Arthur B., Springfield  
 Wesley M., Agawam  
 uey, William L., Thompsonville, Conn.  
 atrick, Katherine E., Springfield  
 gan, John B., Holyoke  
 ner, Keith F., Springfield  
 er, Charles A., Holyoke  
 on, Camille F., Agawam  
 le, Vincent J., Springfield  
 n, Alfred L., Holyoke  
 n, Lawrence D., Thompsonville, Conn.  
 old, Halsey C., Middletown  
 uick, William, Holyoke  
 ert, Alfred O., Westfield  
 ault, Arthur A., Springfield  
 ck, Wilfred G., Springfield  
 s, Gertrude A., Chicopee Falls  
 wachs, Louis R., Thompsonville, Conn.  
 lton, Robert A., Springfield  
 son, Earle M., Springfield  
 ey, Ella M., Springfield  
 ell, Ruth E., Springfield  
 son, Aloysius T., Chicopee Falls  
 ickock, Leon P., Agawam  
 nka, William V., Ware  
 son, Robert W., Springfield  
 son, Ernest S., Springfield  
 s, Bernard S., Florence  
 an, Fred, Springfield  
 a, Max, Springfield  
 anos, Joseph A., Springfield  
 ey, Lawrence W., Springfield  
 ne, Arthur G., Springfield  
 ue, Ralph O., Springfield  
 ose, Joseph A., Springfield  
 lle, Edith L., Springfield  
 ne, Maurice M., Springfield  
 er, Philip E., Springfield  
 y, John D., Westfield  
 erman, Esther, Springfield  
 gston, R. H., Thompsonville, Conn.  
 owood, John J., Springfield  
 nder, Clarence M., Springfield  
 ych, Madeline V., Springfield  
 Lyon, Theresa F., Middletown  
 MacFarlane, Melbourne H., Springfield  
 MacGregory, Donald E., Springfield  
 Martin, James P., Holyoke  
 Maher, Helena M., Springfield  
 Matthewson, Donald S., Chicopee Falls  
 Matulewicz, Andrew J., Springfield  
 McGilpin, William A., Westfield  
 Messier, Frederick E., Springfield  
 Miller, Lawrence C., Springfield  
 Moriarty, Thomas R., Northampton  
 Mullins, John F., Springfield  
 Murphy, John H., Springfield  
 Murray, John B., Springfield  
 Murtagh, Ellen F., Springfield  
 Myerowitz, Israel R., Springfield  
 Niesner, Carl, Holyoke  
 Noratovitch, Joseph E., Scitico, Conn.  
 Obrey, Harold A., Springfield  
 Olshafski, F. W., Thompsonville, Conn.  
 Osborne, Robert H., Springfield  
 Powers, Francis J., Ludlow  
 Reed, Arthur A., Springfield  
 Riley, Frank W., Springfield  
 Rosso, Frank, Feeding Hills  
 Ryan, James D., Springfield  
 Scabill, Bernard L., Springfield  
 Schweigman, Edwina L., Springfield  
 Sears, Patrick J., Westfield  
 Shaddock, William S., Middletown  
 Shattuck, Morton W., Middletown  
 Shaw, Eugene W., Springfield  
 Sherburne, Nelson, Jr., West Springfield  
 Sheridan, Kenneth A., Woronoco  
 Slatery, John H., Springfield  
 Sosville, Moses W., Ludlow  
 Speight, John F., Springfield  
 Spring, George V., Springfield  
 Stahl, Norman S., Springfield  
 Stanton, Lloyd H., Chicopee  
 Stone, Ralston B., Springfield  
 Sullivan, James J., Springfield  
 Tait, Harry J., Jr., Springfield  
 Terwilliger, Ross W., Thompsonville, Conn.  
 Thurgood, Robert J., Woronoco  
 Vlasak, James A., West Springfield  
 Walker, Carl W., Northampton  
 Wallace, Harold J., South Hadley  
 Walsh, Thomas B., Springfield  
 Wood, Bemis P., Woronoco  
 Worcester, Kenneth C., Springfield  
 Yarrington, George A., Springfield  
 Young, Gladys V., Palmer  
 Young, Hazel M., Palmer  
 Zimmerman, Myron W., Springfield

### WORCESTER

and, Willfred, Worcester  
 amin, Israel, Worcester  
 ett, Irving H., Worcester  
 ett, Roger W., Worcester  
 hard, Ernest, Worcester  
 an, Rose M., Webster  
 nnell, Samuel E., Worcester  
 ank, Davis E., Worcester  
 le, Anna E., Worcester  
 on, Maurice, Worcester  
 oll, Stillman, Worcester  
 rg, Melville, Worcester  
 rker, Milton, Worcester  
 uk, Anthony G., Worcester  
 els, Lillian, Worcester  
 avich, Walter J., Worcester  
 e John F., Worcester  
 ehos, Roderick A., Worcester  
 Donoghue, Fred B., Worcester  
 Drake, Vivian, Worcester  
 Erickson, Edward E., Worcester  
 Erickson, Ralph E., Worcester  
 Farber, Daniel, Worcester  
 Farnum, Albert, Worcester  
 Flanagan, John P., Northbridge  
 Fleming, David R., North Grafton  
 Fleming, William D., Worcester  
 Franklin, H. S., Worcester  
 Fuller, Robert B., Worcester  
 Gaudette, E. H., Worcester  
 Gilbert, John F., Worcester  
 Hamill, Harold G., Worcester  
 Hopkins, Arthur B., Worcester  
 Howarth, Thomas J., Putnam  
 Hughes, Edward J., Worcester  
 Hurwitz, Maurice I., Worcester

# Northeastern University

## WORCESTER—Continued

Hussey, Walter J., Baltic  
 Jaffe, Gertrude R., Worcester  
 Jenkins, Bernard, Worcester  
 Johnson, Wendell J., Worcester  
 Jones, Robert L., Worcester  
 Katzell, Harry, Worcester  
 Kisseli, Anton, Worcester  
 Kowalski, Theopha, Worcester  
 Lyons, John J., Worcester  
 Mahoney, Frank G., Worcester  
 Margerum, Raymond C., Worcester  
 Mazgerdian, George, Worcester  
 McCallfrey, John H., Worcester  
 McDermott, Thomas P., Worcester  
 McDonald, Martin, Worcester  
 Mills, Earl T., Worcester  
 Missle, Charles, Worcester  
 Murphy, James R., Worcester  
 Nelson, Raymond L., Worcester  
 O'Brien, Paul C., Worcester  
 Palisoul, Arthur H., Worcester  
 Pehrson, Frank A., Leominster  
 Power, Thomas F., Worcester  
 Quinlan, Frederick, Worcester  
 Rice, Frank S., Worcester  
 Robbins, Morris, Worcester  
 Ryan, Edmond J., Worcester  
 Salmonsens, Clarence H., Worcester  
 Shea, George M., Worcester  
 Smith, Howard B., Worcester  
 Smith, Kenneth L., Worcester  
 Sysesky, George T., Worcester  
 Taylor, George T., Worcester  
 Tornblom, Gladys, Worcester  
 Weiner, Benjamin J., Worcester  
 Westwood, Albert E., Worcester  
 White, Walter P., Jr., Worcester  
 Wilson, Earl M., Worcester  
 Wray, Harold J., Worcester

## UNCLASSIFIED STUDENTS

### BOSTON

Aely, John C., Wellesley  
 Aldrich-Ames, Chas. C., Melrose Highlands  
 Allan, Alexander, Needham  
 Altschuler, S. Arnold, Boston  
 Austin, George W., Wakefield  
 Bailey, David C., Amesbury  
 Banks, Austin R., Lynn  
 Berenson, Julius L., Dorchester  
 Bladek, Albert, Boston  
 Boisclair, Ernest N., Lynn  
 Booth, James A., Framingham Center  
 Boyle, William J., South Boston  
 Brackett, Hazel M., Boston  
 Brickett, Paul W., Swampscott  
 Brockington, Harry, West Roxbury  
 Brown, Ruth E., West Somerville  
 Burbank, Carl U., Amesbury  
 Burbank, Malcolm S., Amesbury  
 Butler, Harold F., Medford  
 Cairns, James J., Jamaica Plain  
 Calliehy, S. Theodore, Salem  
 Carlson, Alfred A., Waltham  
 Carlson, Frank, Dorchester  
 Carmichael, Albert, Malden  
 Carroll, Elmer F., Medford  
 Carroll, Richard J., Revere  
 Cohen, Samuel, Dorchester  
 Colburn, Stanley W., Boston  
 Colgate, Herbert W., Chelsea  
 Conley, Francis M., Brookline  
 Conroy, John J., Roxbury  
 Corcoran, George F., Lawrence  
 Cortazze, Harry A., Revere  
 Cotton, Samuel, Roxbury  
 Creiger, Edward, Boston  
 Cunningham, Daniel H., Jamaica Plain  
 Danforth, Lucy A., Reading  
 Darling, Percy E., Cambridge  
 Davies, E. Alfred, Falls Village, Conn.  
 DeMont, Boy P., Watertown  
 Devlin, John J., Charlestown  
 DiBona, Michael, Quincy  
 Donelue, John G., Lowell  
 Donohoe, Edward T., Lowell  
 Donovan, Timothy F., South Boston  
 Dorney, John F., Newtonville  
 Dougan, George W., Lynn  
 Driscoll, Albert O., Brockton  
 Durgin, Frank A., Lynn  
 Eckman, Albert C., Jamaica Plain  
 Eigner, Harry, Lynn  
 Estrach, Louis A., Chelsea  
 Farrington, Charles E., Norwood  
 Ferullo, Samuel F., Chelsea  
 Finlay, George, Framingham  
 Finlay, Robert N., Waltham  
 Flato, Theodore P., Brighton  
 Flavin, Edward M., Quincy  
 Friedman, Louis, Worcester  
 Fuller, John R., Salem  
 Gaudet, Camille, Waltham  
 Genereux, G. Alfred, Atlantic  
 Glazier, Leslie G., Brookline  
 Gleason, Marie E., Watertown  
 Gold, Jacob, Dorchester  
 Goldstein, Murray W., Roxbury  
 Greene, Earl J., Revere  
 Griffin, Harry J., Roxbury  
 Grimes, Harry J., Brighton  
 Gunther, Frederick H., Lowell  
 Hatch, Raymond B., Worcester  
 Healey, Gerald D., Dorchester  
 Henderson, Carolyn E., Boston  
 Henderson, Lillian B., West Somerville  
 Henghens, Allister R., Cambridge  
 Holmes, Fred, Boston  
 Hooley, David, Quincy  
 Howard, Wilbur F., Lynn  
 Hull, Stanley A., Ipswich  
 Hunt, Oren D., Revere  
 Inman, Harold H., Dorchester  
 Jackson, Benjamin, Worcester  
 James, Earl E., Newton  
 Johnson, Albin R., Atlantic  
 Judkins, Ervin S., Framingham  
 Kane, Murray M., Boston  
 Karlin, Marella L., Dorchester  
 Kasustehik, Daniel, Boston  
 Keith, William J., Newton  
 Kennedy, Frank G., Needham  
 Kennedy, John J., Lynn  
 Kenney, James H., Brookline  
 King, Chester S., Watertown  
 Knight, Harold S., Islington  
 Kremer, Louis, Haverhill  
 Lane, George H., Somerville  
 Langlois, Edmond J., Jr., Methuen  
 Lansky, Morris A., Revere  
 Larkin, James E., West Newton  
 Leatherwood, Roy F., Boston  
 Leland, Shirley E., Allston  
 Long, Harriet B., Whitman

## School of Commerce and Finance

### BOSTON—Continued

ts, Robert, Salem  
in, Ernest A., Medford  
in, Albert O., Cambridge  
ay, Theodore N., Cambridge  
obbie, John O., Jr., Revere  
d, Harry, Dorchester  
mon, James W., Wollaston  
len, Jacob, Winthrop  
ermott, Joseph P., South Boston  
hinney, Earle S., Lynn  
auley, Walter J., Chelsea  
er, Thomas, Belmont  
room, Nathan, Boston  
er, Eliot H., Brighton  
s, John H., Rockport  
s, Walter J., Medford Hillside  
re, John B., Dorchester  
son, Thornton S., Watertown  
rie, Francis P., Dorchester  
l, Alexander B., North Andover  
nsky, Leon P., Revere  
e, Elsie M., Cambridge  
l, Julia A., Eastondale  
ody, William T., Melrose  
s, Frederick, Cambridge  
oson, Harry, Brookline  
es, Walter, Hyde Park  
n, Joseph J., Cambridge  
James, Plymouth  
mele, Ferdinand C., Natick  
ards, Florence M., Dorchester  
ardson, Winthrop A., Boston  
ster, Alfred O., Medford  
erts, William G., East Milton  
enfield, William H., Roxbury  
enthal, Isedore, Everett  
orn, James K., Belmont  
in, Fred D., Everett  
t, Dorothy M., Cambridge  
t, Leslie J., Amesbury

Sears, Charles M., Jr., Beverly  
Shaps, Theodore, Boston  
Shaw, Alfred W., Newtonville  
Silverman, Hyman, Chelsea  
Skeels, Clarence B., Roslindale  
Sloan, Chester L., Alston  
Smith, Eugene T., Brookline  
Smith, George A., Malden  
Snow, Ruth H., Melrose  
Spaulding, Lewis W., South Hingham  
Stanton, Andrew M., Jamaica Plain  
Stard, John R. C., Dorchester  
Stearns, Mack D., Malden  
Steeves, James R., Lynn  
Sullivan, Cornelius J., Framingham  
Tarbell, Donald K., Newton Highlands  
Taylor, Arthur, Boston  
Thomas, Carl H., Medford  
Thomas, Theodore, Boston  
Thompson, A. W., Norwood  
Tobias, Sydney A., Roxbury  
Tompkins, Leon H., Newton Upper Falls  
Travassos, Gustavo A., Cambridge  
Vance, George E., Swampscott  
Wales, Edward F., Newton Center  
Wallis, Harry W., Beverly  
Watson, Beresford M., Milton  
Watson, Harold M., South Weymouth  
Waugh, Sydney A., Malden  
Weinstein, Jack, Revere  
White, Raymond L., Somerville  
Wilcox, John A., Milton  
Wiley, Kenneth H., Norfolk Downs  
Wilkins, Artemus O., Saugus  
Willard, Dorothy G., Roslindale  
Winkfield, Dorothy G., Arlington  
Winkfield, Holley S., Arlington  
Wolfe, Joseph A., Dorchester  
Yerontitis, Kostas C., Chelsea  
Young, John G., Dorchester

### PROVIDENCE

ms, Robert R., Attleboro, Mass.  
n, Earl V., Providence  
erson, G. Conrad, Pontiac  
rews, J. A., Saylesville  
elone, Alfred C., Providence  
leton, Walter W., Pawtucket  
strong, Robert, Woonsocket  
old, Walter B., Saylesville  
hm, Robert C., Providence  
er, Herbert H., Jr., Providence  
ou, Austin A., Woonsocket  
nford, James, Providence  
rows, Edwin A., Jr., Providence  
well, Joseph M., Pawtucket  
lone, Edmund J., Providence  
anaugh, J. F., Providence  
pman, Vincent F., Providence  
ok, Joseph W., Providence  
vley, William A., Arctic  
rine, E. R., Providence  
k, Walter S., Providence  
ld, William E., Providence  
blee, W. J., Providence  
redge, George F., Providence  
n, James P., Jr., Providence  
ch, Carmen S., Cranston  
nning, Hartwell, Providence  
d, J. R., Providence  
n, Francis V., Providence  
eman, A. M., Providence  
luccio, Olindo, Providence  
hem, Joseph, Providence  
dner, A. Byron, Saylesville  
ritt, Walter, Providence

Gifford, S. B., Providence  
Gladding, Howard E., Barrington  
Glasby, Harry G., Providence  
Glover, Milton H., Providence  
Griffith, George, Providence  
Hall, J. R., Providence  
Hargreaves, William, Greystone  
Harrington, William T., Providence  
Hart, Gerald E., Providence  
Hartley, James, Providence  
Haslam, William J., East Providence  
Henrickson, Roy, Providence  
Jacobson, Leo, Providence  
Jones, Harold, Pawtucket  
Kelly, William H., Fall River, Mass.  
Lane, E. William, Auburn  
Lewis, Arthur H. W., Providence  
Lyons, William, Pawtucket  
MacConnell, N. J., Providence  
MacInnes, Murdock H., Providence  
MacNeill, Thomas M., Saylesville  
Magnuson, John H., Harrisville  
Makepeace, Colin MacR., Providence  
Mamis, Samuel L., Providence  
McGinn, James J., Pawtucket  
McSoley, Joseph, Providence  
Milligan, James E., Pawtucket  
Moore, James, Providence  
Moore, William D., Central Falls  
Moran, James F., Providence  
Murphy, Edward C., Pawtucket  
Nockles, Thomas M., Providence  
Oldale, Albert E., Providence  
O'Leary, Thomas F., Providence

# Northeastern University

## PROVIDENCE—Continued

Pearson, C. F., Providence  
Potter, William J., Rumford  
Reed, Raymond F., Providence  
Resnick, Nathan, Providence  
Richardson, John, Jr., Pawtucket  
Ryder, Joseph H., Saylesville  
Smith, Ernest L., Oaklawn  
Sponik, Joseph J., Anthony  
Stebbins, Arthur, Pawtucket

Sullivan, E. E., Fall River, Mass.  
Tanner, K. J., Providence  
Towle, Frederick G., Pawtucket  
Wakely, Byron V., Providence  
Walker, James J., Lakewood  
Walpole, C. Raymond, Riverside  
Whyatt, William H., Fall River  
Yates, Harry M., Pawtucket  
Young, Kenneth C., Providence

## SPRINGFIELD

Aitken, William F., Springfield  
Crowell, Cutler B., Westfield  
Flathers, Walter S., Springfield  
Ford, Ernest M., New York, N. Y.  
Frey, William L., Springfield  
Gear, Katherine M., Holyoke  
Grillin, Michael, Springfield  
Harvey, Clayton B., Willimansett  
Kilmer, Frederick W., Springfield  
Krasman, Ernest, Agawam  
Krause, Edwin O., Springfield

Mannix, John A., Springfield  
Moriarity, John J., Northampton  
Ninomiya, June B., Tokyo, Japan  
O'Donnell, Grace, Northampton  
Peltier, Roland F., Holyoke  
Redfearn, Charles E., Springfield  
Reid, George W., Springfield  
St. Germain, D. J., Mittineague  
Sullivan, Francis G., Springfield  
Sullivan, Francis S., Norwich, Conn.  
Walkinshaw, Harold W., Woronoco

## WORCESTER

Botuck, Julius, Worcester  
Colvin, Kenneth H., Worcester  
Demers, J. Alexander, Worcester  
Doucette, C. Oliver, Worcester  
Elliott, William, Worcester  
Estabrook, Walter F., Worcester  
Flagg, Raymond J., Worcester  
Gaynor, Leo A., Rutland  
Gibbs, Walter H., Worcester  
Gustafson, Lambert, Webster  
Hines, J. Frank, Worcester  
Kenney, Harper, Worcester

Lynch, John A., Worcester  
Palley, Samuel, Worcester  
Sallgren, Edwin C., Worcester  
Sherwood, Robert J., Worcester  
Shockett, A. J., Worcester  
Siddall, Walter F., Worcester  
Thompson, James, Jr., Worcester  
Torone, Andrew, Worcester  
Vaughan, Margaret, Worcester  
White, Dorothy, Worcester  
Whitney, Rollin F., Worcester  
Winberg, N. Albert, Worcester



# STATISTICAL SUMMARY OF STUDENTS

1925-26

(Duplicates Excluded)

## BOSTON

Graduate Students	11	
Class of 1926	40	
Class of 1927	48	
Class of 1928	70	
Class of 1929	148	
Unclassified	182	
Total	<hr/>	499

## PROVIDENCE

Graduate Students	1	
Class of 1926	16	
Class of 1927	20	
Class of 1928	32	
Class of 1929	52	
Unclassified	86	
Total	<hr/>	207

## SPRINGFIELD

Graduate Students	2	
Class of 1926	17	
Class of 1927	21	
Class of 1928	44	
Class of 1929	123	
Unclassified	22	
Total	<hr/>	229

## WORCESTER

Graduate Students	1	
Class of 1926	18	
Class of 1927	22	
Class of 1928	21	
Class of 1929	75	
Unclassified	24	
Total	<hr/>	161

Total Number of Students to March 1, 1926		<hr/> 1,096
---	--	-------------

Total Graduate Students	15	
Total Class of 1926	91	
Total Class of 1927	111	
Total Class of 1928	167	
Total Class of 1929	398	
Total Unclassified	314	
Grand Total	<hr/>	1,096

# INDEX

Admission Requirements . . . . .	25-
Advanced Standing Admission . . . . .	27-
Alumni Clubs . . . . .	72-
Attendance Requirements . . . . .	0
Board of Trustees and Governors . . . . .	
Calendar . . . . .	
Courses Available and Time Required . . . . .	13-
Degree Requirements of Former College Students . . . . .	
Description of Courses . . . . .	48-
Examinations . . . . .	62-
Expenses for Books and Materials . . . . .	6
Faculty . . . . .	5-1
Function of the School . . . . .	15-1
Graduation with Honors . . . . .	6
History of Northeastern University . . . . .	6
Introduction of Six Year Program . . . . .	17-1
Marks . . . . .	6
Officers of Administration . . . . .	
Organization of the School . . . . .	1
Placement Service . . . . .	68-6
Program of Instruction . . . . .	31-3
Promotion . . . . .	6
Registration . . . . .	60-6
Registration and Examination of C.P.A.'s . . . . .	69-7
Removal of Conditions . . . . .	6
Requirements for Degrees, Diplomas and Certificates . . . . .	34-4
For B.C.S. Degree . . . . .	34-3
For B.B.A. Degree . . . . .	36-3
For M.B.A. Degree . . . . .	38-4
For Diploma of Graduate in Accounting . . . . .	41-4
For Diploma in Commerce . . . . .	42-4
For Certificate of Proficiency . . . . .	43-4
Requirements for Graduation . . . . .	65-6
School Year . . . . .	6
Student Register . . . . .	74-8
Term Work . . . . .	61-6
Tests . . . . .	6
Tuition and Other Fees . . . . .	2
Unit of Credit . . . . .	3
Whom the School Serves . . . . .	18-2
Withdrawals and Refunds . . . . .	30





# NORTHEASTERN UNIVERSITY

## DAY SCHOOLS

### SCHOOL OF ENGINEERING

Four-year courses in Civil, Mechanical, Electrical, Chemical, and Administrative Engineering, leading to the degree of Bachelor of Civil, Mechanical, Electrical, Chemical and Administrative Engineering. Conducted in co-operation with engineering firms. Students earn while they learn. Work conducted at Boston.

### SCHOOL OF BUSINESS ADMINISTRATION

Four-year course in Business Administration leading to the degree of Bachelor of Business Administration. Students may specialize in Industrial Management, Marketing, Finance, Accounting, and Sales Management. A two-year course leading to a Junior Certificate. Conducted on the Co-operative Plan beginning in September, 1927. Work conducted at Boston.

## EVENING SCHOOLS

### SCHOOL OF LAW

(Co-educational)

Four-year course leading to the degree of Bachelor of Laws. Preparation for bar examinations and practice. High scholastic standards. The graduates of the School have been outstandingly successful in the bar examination and the practice of law and in many fields of business. Work conducted at Boston, and in Divisions at Worcester, Springfield and Providence.

### SCHOOL OF COMMERCE AND FINANCE

(Co-educational)

Five-year courses in Professional Accounting and Business Administration, with specialization in Finance, Marketing, Management, and other fields, leading to the degrees of Bachelor and Master of Business Administration. Special two and four-year courses for those desiring intensive specialization. Work conducted at Boston, and in the Divisions at Worcester, Springfield, and Providence.

## NON-COLLEGIATE SCHOOLS

### EVENING POLYTECHNIC SCHOOL

Three-year courses offered in the Evening Polytechnic School lead to a diploma in Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemistry or Structural Engineering. The work offered in these courses, while not as extensive as that leading to a degree, meets standard requirements. Students are trained for positions of trust and responsibility.

### NORTHEASTERN PREPARATORY SCHOOL

Co-educational

Courses in usual high school subjects leading to a diploma. Three sixteen-week terms each year. It is possible for students to meet college entrance requirements in from three to five years. Work conducted at Boston.

### NORTHEASTERN AUTOMOTIVE SCHOOL

Courses in all phases of the automotive industry with special instruction for owners, salesmen, mechanics, and chauffeurs. Classes are conducted both day and evening.

### DEPARTMENT OF UNIVERSITY EXTENSION

Co-educational

A diversified program of short intensive courses in Blueprint Reading, Public Speaking, Practical Trade, Mathematics, Mechanical Drawing, Estimating, Civil Service, English for Educated Foreigners, etc.

For further information concerning any of the above schools, address

### NORTHEASTERN UNIVERSITY

316 Huntington Avenue, Boston, Massachusetts  
or nearest Division at Y.M.C.A. in Providence, Springfield and Worcester.



# NORTHEASTERN UNIVERSITY

## EVENING POLYTECHNIC SCHOOL



**BOSTON YOUNG MEN'S CHRISTIAN  
ASSOCIATION**

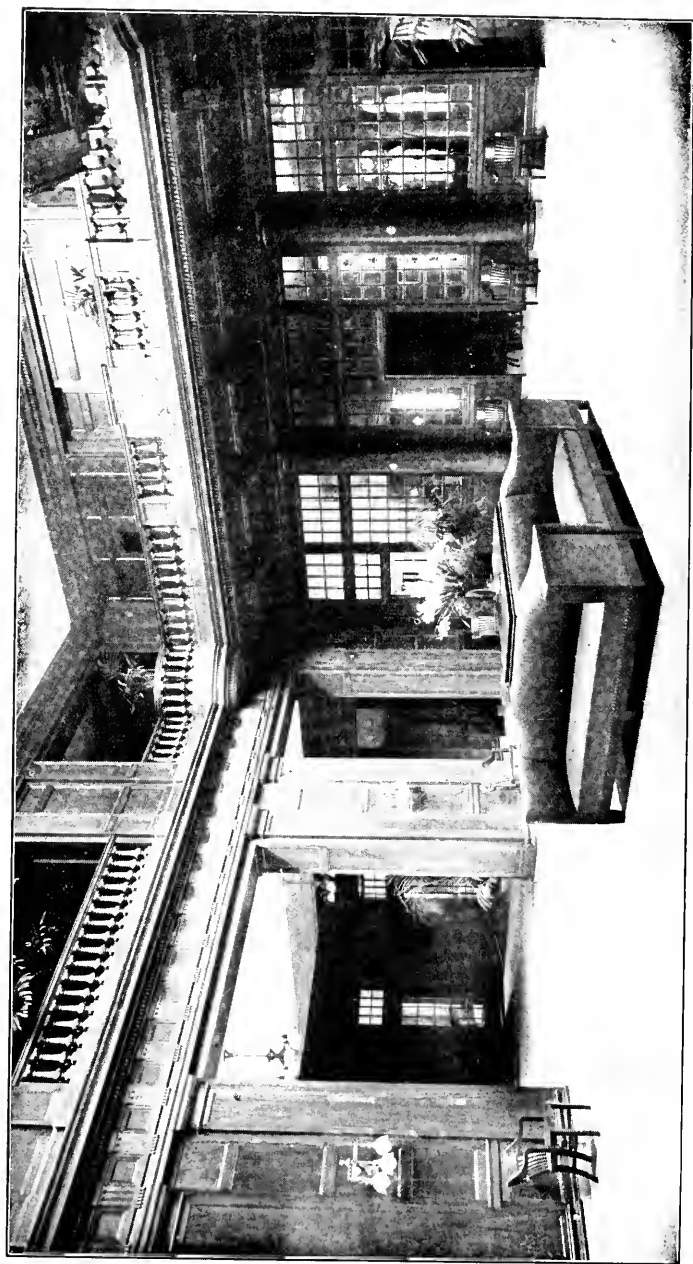
**BOSTON 17, MASSACHUSETTS**





Northeastern University  
EVENING POLYTECHNIC  
SCHOOL

Boston 17, Massachusetts



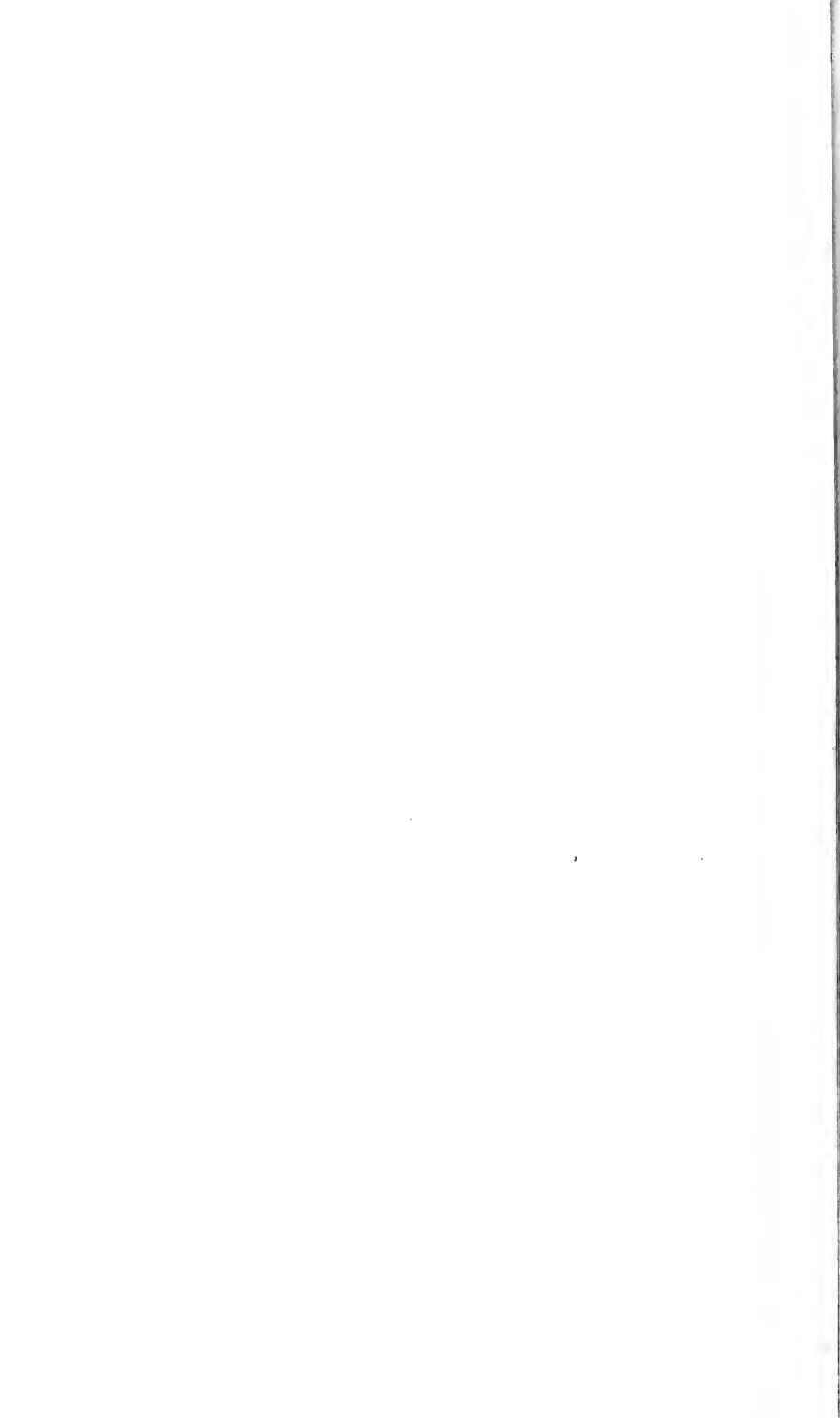
THE LOBBY, ASSOCIATION BUILDING

# NORTHEASTERN UNIVERSITY

Evening Polytechnic  
School



Published by the  
TRUSTEES OF NORTHEASTERN UNIVERSITY  
Boston Young Men's Christian Association  
316 Huntington Avenue, Boston, Massachusetts



**EVENING POLYTECHNIC SCHOOL  
NORTHEASTERN UNIVERSITY  
TRUSTEES**

**CHAIRMAN  
ARTHUR STODDARD JOHNSON**

**VICE-CHAIRMAN  
ALBERT HARMON CURTIS**

**SECRETARY  
GALEN DAVID LIGHT**

WILMAN EDWARD ADAMS  
WASHINGTON IRVING BULLARD  
WILLIAM CONVERSE CHICK  
WALTON LEE CROCKER  
LEWIS ABBOTT CROSSETT  
ROBERT GRAY DODGE  
RICHARD MATHER EVERETT  
HENRY BRADLEE FENNO  
BENJAMIN A. FRANKLIN  
JOHN HENRY HARWOOD  
GEORGE CABOT LEE  
HENRY GARDNER LORD

ERNEST LOVERING  
FRANCIS POPE LUCE  
WILLIAM EVERETT MACURDA  
MILTON CRAWFORD MAPES  
EDWARD FULLER MINER  
ARTHUR PERRY, JR.  
THOMAS HASTING RUSSELL  
SABIN POND SANGER  
CHARLES PECK SISSON  
FRANK PALMER SPEARE  
FRANCIS ROBERT CARNEGIE STEELE  
GEORGE EMERY WILLIAMSON

---

**BOARD OF GOVERNORS**

**CHAIRMAN  
ALBERT HARMON CURTIS**

**SECRETARY  
GALEN DAVID LIGHT**

WILMAN EDWARD ADAMS  
WILLIAM CONVERSE CHICK  
WALTON LEE CROCKER  
ROBERT GRAY DODGE

ARTHUR STODDARD JOHNSON  
WILLIAM EVERETT MACURDA  
FRANK PALMER SPEARE  
FRANCIS ROBERT CARNEGIE STEELE

# NORTHEASTERN UNIVERSITY

## GENERAL OFFICERS OF THE UNIVERSITY

FRANK PALMER SPEARE, LL.B., M.H., *President*

GALEN DAVID LIGHT, A.B., *Secretary and Comptroller*

## THE EXECUTIVE COUNCIL

FRANK PALMER SPEARE, LL.B., M.H.

*President of the University*

GALEN DAVID LIGHT, A.B.

*Secretary of the University*

CARL STEPHENS ELL, A.B., M.S.

*Director of the Engineering and Technical Schools*

EVERETT AVERY CHURCHILL, Ed.D.

*Director of the Schools of Business Administration, Law, Commerce and Finance*

IRA ARTHUR FLINNER, A.B., A.M.

*Director of Secondary Schools*

---

## HEADS OF SCHOOLS

SCHOOL OF BUSINESS ADMINISTRATION

TURNER FLOWERS GARNER, A.M., Ed.M., *Dean*

SCHOOL OF ENGINEERING

CARL STEPHENS ELL, A.B., M.S., *Dean*

SCHOOL OF LAW

EVERETT AVERY CHURCHILL, Ed.D., *Dean*

SCHOOL OF COMMERCE AND FINANCE

CARL DAVID SMITH, B.H., *Dean*

## NON-COLLEGIATE SCHOOLS

EVENING POLYTECHNIC SCHOOL

THOMAS EDWARD PENARD, S.B., *Associate Dean*

NORTHEASTERN PREPARATORY SCHOOL

CHARLES HENRY SAMPSON, B.S., *Principal*

NORTHEASTERN AUTOMOTIVE SCHOOL

HOWARD PERRY LEFAVOUR, *Principal*

VOCATIONAL INSTITUTE

CHARLES HENRY SAMPSON, B.S., *Principal*

# EVENING POLYTECHNIC SCHOOL

## OFFICERS OF INSTRUCTION

FRANK PALMER SPEARE, LL.B., M.H. <i>President</i>	483 Boylston St., Brookline
GALEN DAVID LIGHT, A.B. <i>Secretary</i>	815 Center St., Jamaica Plain
CARL STEPHENS ELL, A.B., M.S. <i>Dean</i>	52 Clement Ave., West Roxbury
THOMAS EDWARD PENARD, S.B. <i>Associate Dean</i>	12 Norfolk Rd., Arlington
JOHN BUTLER PUGSLEY <i>Registrar</i>	23 Hardy Ave., Watertown

## PROFESSORS

HENRY BISSELL ALVORD, S.B. <i>Professor of Civil Engineering</i>	52 Frost Ave., Melrose Highlands West Townsend, Mass.
GEORGE FRANCIS ASHLEY <i>Professor of Drawing</i>	
JOSEPH ARTHUR COOLIDGE, S.B. <i>Professor of Physics</i>	20 Martin St., Cambridge
CARL STEPHENS ELL, A.B., M.S. <i>Professor of Civil Engineering</i>	52 Clement Ave., West Roxbury
WILLIAM LINCOLN SMITH, S.B. <i>Professor of Electrical Engineering</i>	4 Academy Lane, Concord
JOSEPH SPEAR, A.B. <i>Professor of Mathematics</i>	31 Matchett St., Brighton
JOSEPH WILLIAM ZELLER, S.B. <i>Professor of Mechanical Engineering</i>	1471 Washington St., West Newton

## ASSISTANT PROFESSORS

ALFRED JOHN FERRETTI, S.B. <i>Assistant Professor of Mechanical Engineering</i>	4 Relay Yard, Bass Point, Nahant
GEORGE BLODGETT GEE, C.E. <i>Assistant Professor of Drawing</i>	17 Pine St., Belmont
EMIL ANTON GRAMSTORFF, S.B. <i>Assistant Professor of Civil Engineering</i>	Farmcrest Ave., Lexington
JAMES WARREN INGALLS, S.B., C.E. <i>Assistant Professor of Civil Engineering</i>	65 Graves St., East Lynn
WALDEMAR STANWOOD MCGUIRE, S.B. <i>Assistant Professor of Chemical Engineering</i>	243 Prospect St., West Roxbury
WINTHROP ELIOT NIGHTINGALE, A.B., S.B. <i>Assistant Professor of Civil Engineering</i>	36 Dickerman Rd., Newton Hlds.
ROLAND GUYER PORTER, B.E.E. <i>Assistant Professor of Electrical Engineering</i>	317 Common St., Watertown
JOHN BUTLER PUGSLEY, A.B. <i>Assistant Professor of Mathematics</i>	23 Hardy Ave., Watertown
HENRY EDWARD RICHARDS, S.B. <i>Assistant Professor of Electrical Engineering</i>	31 First St., Melrose

## NORTHEASTERN UNIVERSITY

FREDERICK ARLINGTON STEARNS, S.B. <i>Assistant Professor of Mechanical Engineering</i>	208 Grove St., Melrose
SAMUEL ABBOTT SMITH STRAHAN <i>Assistant Professor of Chemistry</i>	26 Hemenway St., Boston
ELIOT FRANKLIN TOZER <i>Assistant Professor of Drawing</i>	82 Granite Place, East Milton
HOLLEY STETSON WINKFIELD, S.B. <i>Assistant Professor of Electrical Engineering</i>	35 Dartmouth St., Arlington

### INSTRUCTORS

WILLIAM JEFFERSON ALCOTT, JR., B.S. in C.E. <i>Instructor in Mathematics</i>	194 Linden St., Everett
HENRY GUSTAVE ANDERSON, B.M.E. <i>Instructor in Mechanical Engineering</i>	30 Garnet Rd., West Roxbury
CHARLES OSCAR BAIRD, JR. <i>Instructor in Civil Engineering</i>	32 Beacon Hill Ave., Lynn
CHESTER PACKARD BAKER, B.Ch.E. <i>Instructor in Chemical Engineering</i>	53 Wendell Ave., Brockton
RUFUS HALLOWELL BOND, A.B., LL.B. <i>Instructor in Mathematics</i>	106 Lawrence St., Medford
ELMER TOIVO CARLSON, B.E.E. <i>Instructor in Electrical Engineering</i>	Sandwich, Mass.
JOHN ORRIN COPLEY <i>Instructor in Drawing</i>	183 Fulton St., Medford
CHESTER JAMES GINDER, B.C.E. <i>Instructor in Civil Engineering</i>	23 Russell St., Everett
FORREST MELDON HATCH, S.B. <i>Instructor in Physics</i>	38 Ferry St., Malden
ERVIN H. LEWIS, B.E.E. <i>Instructor in Electrical Engineering</i>	43 Gay St., Newtonville
ARTHUR BIRD MONTGOMERY, B.B.A. <i>Instructor in Administrative Engineering</i>	1000 Hyde Park Ave., Hyde Park
EDWARD SNOW PARSONS, B.C.E. <i>Instructor in Mathematics</i>	705 Washington St., Gloucester
GEORGE WESLEY TOWLE, S.B. <i>Instructor in Mechanical Engineering</i>	244 Middlesex Ave., Medford
ALBERT EDWARD WHITTAKER, B.M.E. <i>Instructor in Physics</i>	15 Laurel St., Lynn

### ASSISTANTS

JOHN LEONARD CLARK <i>Assistant in Electrical Engineering</i>	91 Spring St., Stoneham
LEWIS EMERY COBB <i>Assistant in Electrical Engineering</i>	148 Mystic St., West Medford
ANDREW HODSDON HEYWOOD <i>Assistant in Electrical Engineering</i>	North Yarmouth, Me.
JAMES C. HICKS <i>Assistant in Physics</i>	Walnut Hill, Me.



## EVENING POLYTECHNIC SCHOOL

RANDOLPH MATTHEWS HULL <i>Assistant in Electrical Engineering</i>	High Point, N. C.
WARREN SANFORD KUMBLAD <i>Assistant in Chemical Engineering</i>	66 French Ave., Brockton
RONALD SLOANE MURPHY <i>Assistant in Electrical Engineering</i>	New Preston, Conn.
EDWARD ROY NELSON <i>Assistant in Chemical Engineering</i>	1241 Broadway, Somerville
LESTER JOSEPH PARSONS <i>Assistant in Physics</i>	2 Wigglesworth St., Roxbury
WADE HAMPTON SHORTER, JR. <i>Assistant in Physics</i>	48 Cherry St., Quincy
CHARLES WILLIAM SKINNER <i>Assistant in Chemical Engineering</i>	Main St., Hamilton
ADELBERT IRVING SLOCUM <i>Assistant in Electrical Engineering</i>	1133 Hyde Park Ave., Hyde Park
CLARENCE WINSLOW TAYLOR <i>Assistant in Chemical Engineering</i>	24 Everett Sq., Allston
KARL HARRY WILBER <i>Assistant in Physics</i>	South Amboy, N. J.

# NORTHEASTERN UNIVERSITY

## GENERAL INFORMATION

---

### History of Northeastern University

The incorporation of Northeastern University of the Boston Young Men's Christian Association in March, 1916, marked the culmination of a notable development. The University is the realization of an ideal carefully worked out and persistently followed for many years. One of the first lines of endeavor of the Boston Young Men's Christian Association, after its establishment in 1851, was the opening of evening classes for young men. It was not, however, until 1896 that the actual foundations for the University were laid. The larger number of courses offered required a more comprehensive organization. Gradually the courses were grouped under separate schools and additional courses were offered to complete the curriculum of each school.

The School of Law, established in 1898, was incorporated in 1904 with degree granting power. Founded in 1907, the School of Commerce and Finance was authorized in 1911 to confer the degrees of Bachelor and Master of Commercial Science. The School of Engineering was opened in 1909 and given power in 1920 to confer the following degrees: Bachelor of Civil Engineering, Bachelor of Mechanical Engineering, Bachelor of Electrical Engineering, Bachelor of Chemical Engineering and Bachelor of Administrative Engineering. The School of Business Administration was opened in September, 1922, with the right to grant the degree of Bachelor of Business Administration. In addition, the Evening Polytechnic School, the Huntington School for Boys, the Northeastern Preparatory School, the Department of University Extension, and the Vocational Institute are conducted under the administration of the University. In March 1923, the University was granted general degree granting power by the Massachusetts Legislature.

The Evening Polytechnic School was founded in 1913. Although many evening technical courses had been offered

## **EVENING POLYTECHNIC SCHOOL**

before, the regular standard curriculums in Engineering consisting of three continuous years of study had not been established. The School now offers five curriculums in Engineering in addition to special courses. The School is well equipped to carry on the Engineering work; has a faculty consisting of experienced and able engineers and educators; and an enrollment of over three hundred students.

### **Object of the School**

Students are given a thorough training in the fundamental sciences of mathematics, chemistry, physics, and in the important applications of the principles of these sciences to the several branches of engineering. Much stress is laid on the development of the ability to apply the acquired knowledge to new engineering problems, and an effort is made to be thorough without leading the student through a maze of mere mental gymnastics.

The program of studies differs from that of many schools, in that a student is not permitted a wide range of subjects from which to choose. It has been found that better results are obtained by prescribing the principal studies which the student is to pursue.

Many men in various lines of industry feel the need of special instruction in Engineering, either to advance in their chosen occupation, or to enable them to change their positions and get into work of an Engineering nature.

To such men the School offers a wide variety of regular Engineering curriculums, and in addition, special instruction for those who desire it. The Engineering curriculums require attendance three evenings a week, during a period of three years. Only fundamental subjects which meet standard requirements are pursued.

### **Three-Year Engineering Curriculums**

Regular three-year curriculums, leading to a diploma, are offered in the following branches of Engineering:

# NORTHEASTERN UNIVERSITY

- I Civil Engineering
- II Mechanical Engineering
- III Electrical Engineering
- IV Chemistry
- V Structural Engineering

## Special Courses

Special courses, which may be found described in detail in the latter part of this catalog, are offered by the School.

## Requirements for Admission

The work carried on in the regular curriculums assumes that the entering student has had previous training in Elementary Algebra to quadratics, Plane Geometry, and has a good ground-work in English. An entering student should have completed at least the equivalent of one or two years' work in a standard high school. Those who have completed a full high-school course should be well fitted to carry on the courses and derive the maximum benefit from the work.

Men who have finished grammar school, but who have not had the requisite previous training in Mathematics and English, may attend the Evening Courses of the Northeastern Preparatory School, and should be able to get in one year the necessary preparation for entrance to the Polytechnic School.

There are no entrance examinations, but each applicant for admission is required to have an interview with the School officials.

The qualifications of each applicant will be ascertained and he will be advised as to the work he is qualified to undertake.

Should a student prove to be unable to carry on his studies successfully, he may be required to discontinue any subject in which he is deficient, and complete such preparatory work as is deemed necessary before being re-admitted to the subject in question.

## **EVENING POLYTECHNIC SCHOOL**

### **Condition Examinations**

Special condition examinations in any subject which students have taken and failed will be given by the School during the second week of April. All students who desire to take condition examinations are requested to file a petition at the school office on or before April 1, in order that arrangements for the examinations may be made. Each student taking a special condition examination is required to have made a payment of \$2 for the examination and to present his receipt as a card of admission to the examination.

### **Tuition Fees**

For each year of the regular three-year curriculums, the tuition fee is sixty dollars. The tuition fee includes membership in the Association, and is payable as follows:

One-half upon entering the School

One-fourth on Monday of the tenth school week

One-fourth on Wednesday of the eighteenth school week

The tuition fee for special courses will be found on page 54.

### **Refunds**

The College assumes the obligation of carrying the student throughout the year. Instruction and accommodations are provided on a yearly basis, therefore, no refunds are granted except in cases where students are compelled to withdraw on account of personal illness. The application must be accompanied by a satisfactory certificate from a physician.

### **Laboratory Fees**

All students taking courses in the Chemical and Electrical Laboratories are charged laboratory fees in accordance with the following rates: Inorganic Chemistry Laboratory (26), \$10; Analytical Chemistry Laboratory (28), \$10; Organic Chemistry Laboratory (30), \$15; Direct Currents Laboratory

## NORTHEASTERN UNIVERSITY

(22), \$5; Alternating Currents Laboratory (24), \$5. These fees are payable on entrance and do not cover breakage or destruction of apparatus. They are non-returnable.

An additional chemical laboratory deposit of \$10 must be made when a desk is assigned to a student. At the close of the school year the cost of equipment, broken by the student or not returnable, will be deducted from this amount and the balance refunded. Students failing to check up their desks upon leaving school will be charged \$1 extra.

### **Books and Supplies**

All supplies may be purchased from the University Book Store at cost of five (5) to twenty (20) dollars per year. Supplies for the freshman year aggregate somewhat more because a set of drawing instruments must be obtained.

### **Membership in the Y. M. C. A.**

The yearly tuition fee for regular students includes membership in the Boston Y. M. C. A. This fee is not included in the tuition for special students.

### **The Boston Y. M. C. A.**

Northeastern University is conducted by the Boston Y. M. C. A., though non-sectarian, it is thoroughly Christian in character. Students are encouraged to participate in the activities of the Student Christian Association of the University, so far as is consistent with their own particular religious beliefs. However, a student should not hesitate entering the School because of religious faith, no attempt being made to influence one to participate in activities which are contrary to the tenets of his particular religion.

### **Religious Activities**

Students are cordially welcomed and urged to participate in all the activities of the Y. M. C. A.—it is hoped that they will

## **EVENING POLYTECHNIC SCHOOL**

feel free to do so to the largest extent possible. In connection with the various departments of each Association, an ample social and religious program is provided, so that all men should be able to find that type of activity in which they are most interested. Full information may be received on inquiry.

### **Transfers**

No student is permitted to transfer from one course to another without consulting the school officials beforehand and receiving a transfer order.

### **Absences**

No "cuts" are allowed. A careful record of attendance upon class exercises is kept for each student. Absence from regularly scheduled exercises in any subject will seriously affect the standing of the student. It may cause the removal of the subjects from which he is absent from his schedule and the listing of these subjects as conditioned subjects. In case he presents a reasonable excuse for the absence, however, he may be allowed to make up the time lost and be given credit for the work; but he must complete the work at such time and in such manner as his instructor in the course shall designate.

### **Reports of Standing**

An informal report of the student's standing is issued at the end of the first term, and a formal report, covering the year's work, is issued at the close of each year.

### **Conduct**

It is assumed that students come to the School for a serious purpose, and that they will cheerfully conform to such regulations as may from time to time be made. In case of injury to any building, or to any of the furniture, apparatus, or other property of the School, the damage will be charged to the

## NORTHEASTERN UNIVERSITY

student, or students, known to be immediately concerned; but if the persons who caused the damage are unknown, the cost for repairs may be assessed equally upon all the students of the School.

### Status of Students

The ability of students to continue their courses is determined by means of classroom work and examinations, but regularity of attendance and faithfulness to daily duties are considered equally essential.

When a student elects a curriculum, he is required to complete all courses included therein in order to be graduated. No subject is to be dropped, or omitted, without the approval of the Dean.

A special student is permitted to attend the School, subject to the approval of the Dean, and to take such courses as the School offers. Special students are not eligible for a diploma.

### Rules of Standing in Scholarship

A student's grade is officially recorded by letters and percentages, as follows:

A, excellent, 90-100 per cent.

B, good, 80-89 per cent.

C, fair, 70-79 per cent.

D, passable, 60-69 per cent.

F, failure, work unsatisfactory, 40-59 per cent.

FF, complete failure, below 40 per cent.

I, incomplete.

A mark of F in any particular subject entitles the student to make up the unsatisfactory work, or to take a condition examination. This letter is given for all grades below 60 per cent on intermediate reports.

A mark of I is used for intermediate grades only and signifies that the course may not have progressed sufficiently far



## **EVENING POLYTECHNIC SCHOOL**

to give a grade or that the student has not had time to make up work lost through excusable absences.

The responsibility for the removal of a condition rests with the student, who is required to ascertain when and how the condition can be removed.

No student may qualify as a candidate for a diploma in any given year unless clear in all the required subjects of the lower years of his chosen curriculum. He must also be in good standing in all courses for which he is enrolled.

Entrance requirements or preparatory subjects pursued in the School are considered as required School work.

### **Requirements for Graduation**

To receive a diploma in engineering the student must be a resident of the School for at least one year, immediately preceding the date on which he expects to be graduated. He must have completed the three years of prescribed work of his chosen curriculum, and to have passed such final examinations as are required in the respective courses.

### **Students Admitted with Advance Standing**

Students who, upon admission, were granted provisional advance standing, but have not presented evidence of their eligibility to such advance standing, shall not be granted the diploma of the School.

### **Residence**

It has been found to be much more satisfactory for the student to live, if possible, within easy access of Boston. The saving of time and effort more than offsets any increased expense.

There are limited accommodations at very moderate rates in the dormitories. These rooms may be had separately or in groups with a common reception room. The price varies from \$3 per week upwards. Since board costs about \$8 to \$10 per

## NORTHEASTERN UNIVERSITY

week, a student may obtain room and board for from \$12 per week upwards.

Residence in Boston, though not required, is advisable as it gives the student opportunity to use the college facilities outside of class hours, and to confer easily with his instructors about his scholastic work.

The School officials have no jurisdiction in the matter of dormitory assignments. Students should write the General Activities Department of the Boston Y. M. C. A. for rooms in the dormitories.

The General Activities Department of the Y. M. C. A. maintains a registry of suitable rooms in the nearby houses for the convenience of students desiring accommodations outside of the dormitories.

### School Year

The first semester begins each year in September and continues for fourteen weeks. The second semester of fourteen weeks follows immediately upon its close and ends in April.

### Location

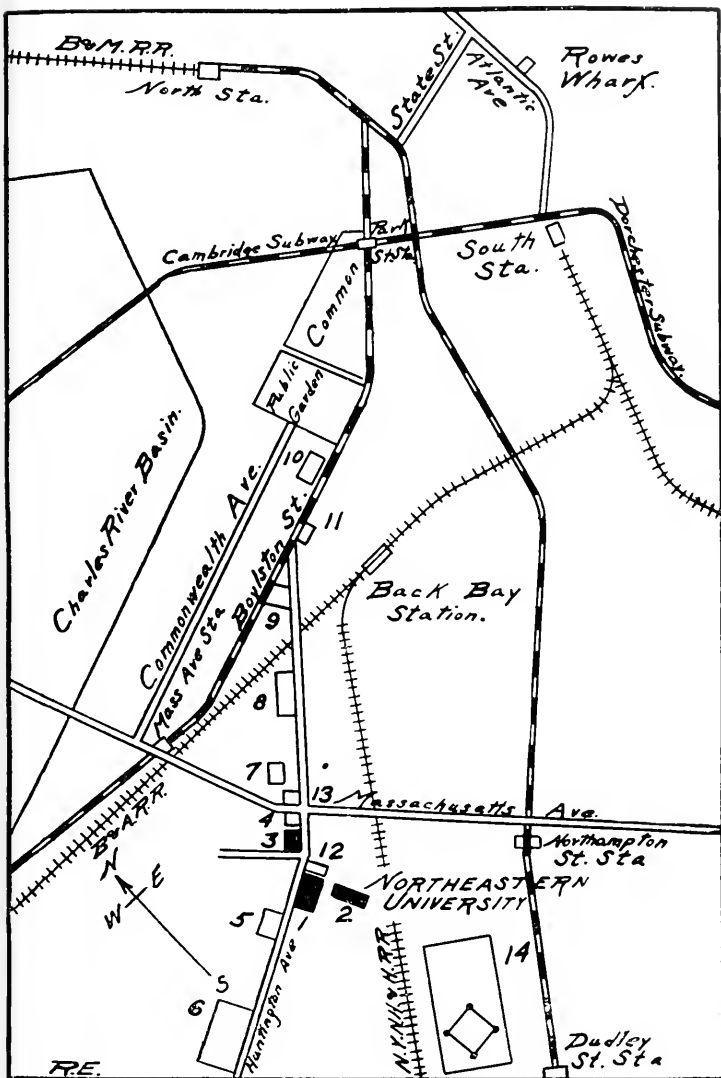
The School is housed in the three buildings of the Association, the Vocational Building on St. Botolph Street, in the rear of the Main Buildings, and the Huntington Building opposite the Main Buildings.

The buildings are located on Huntington Avenue, just beyond Massachusetts Avenue, and are within easy access to the various railroad stations, and the business and residential sections. A map is shown opposite page 16.

### Elective Subjects

Students electing any course not included in their curriculum will be required to take all examinations in that course and to attain a passing grade in it before they will be eligible for a diploma.

# NORTHEASTERN UNIVERSITY



MAP OF IMMEDIATE VICINITY  
(For key see next page)

## **EVENING POLYTECHNIC SCHOOL**

- 1. ADMINISTRATION BUILDING  
(Boston Y. M. C. A.)**
- 2. VOCATIONAL BUILDING**
- 3. HUNTINGTON BUILDING**
- 4. SYMPHONY HALL**
- 5. BOSTON OPERA HOUSE**
- 6. BOSTON MUSEUM OF FINE ARTS**
- 7. CHRISTIAN SCIENCE CHURCH**
- 8. MECHANICS EXHIBITION HALL**
- 9. BOSTON PUBLIC LIBRARY**
- 10. MUSEUM OF NATURAL HISTORY**
- 11. TRINITY CHURCH**
- 12. NEW ENGLAND CONSERVATORY OF MUSIC**
- 13. HORTICULTURAL HALL**
- 14. NORTHEASTERN ATHLETIC FIELD**

## EVENING POLYTECHNIC SCHOOL

### Relation of School to Preparatory Schools

This School is well adapted to the needs of a student with limited financial resources who has the ambition and ability to get ahead.

This year the School has a student body made up of students from the following schools:

Abington High School	Howe High School
American High School (Marash, Turkey)	Huntington School
Amesbury High School	Hyde Park High School
Ansonia High School (Conn.)	Irvington High School
Arlington High School	Island Falls High School (Me.)
Belmont High School	Kimball Union Academy
Berkeley Preparatory School	Lawrence High School
Beverly High School	Liberty High School (N. Y.)
Beverly Industrial School	Lowell High School
Boston College High School	Lynn Classical High School
Boston English High School	Lynn English High School
Boston High School of Commerce	Lynn Evening High School
Boston Trade School	Malden High School
Brighton High School	Manchester High School (N. H.)
Brockton High School	Marblehead High School
Brookline High School	Marlboro High School
Cambridge Latin High School	Mechanic Arts High School
Charlestown High School	Medford High School
Chatham High School	Medway High School
Chelmsford High School	Melrose High School
Chelsea High School	Milford High School
Dalton High School	Milton High School
Danvers High School	Moorehouse College (Atlanta, Georgia)
Dean Academy	Mt. Allison Academy
Dedham High School	Natick High School
Dorchester High School	New Bedford High School
East Boston High School	Newton High School
Elgin High School (Ill.)	Newton Technical High School
Eron Preparatory School	Newton Vocational High School
Everett High School	Northeastern Preparatory School
Exeter High School	Norwood High School
Fayetteville High School (N. C.)	Peabody High School
Fall River Technical High School	Plymouth High School
Fitchburg High School	Plymouth High School (N. H.)
Foxboro High School	Portland High School (Me.)
Franklin Union	Quincy High School
Frazee High School (Minn.)	Quincy Industrial School
Gloucester High School	Rawden High School (N. S., Can.)
Gordon's College, Scotland	Revere High School
Haverhill High School	Richford High School
Hartford Public High School	Rindge Technical High School
Hingham High School	Salem High School
Homestead High School (Pittsburgh)	Saugus High School
	Sharon High School

## NORTHEASTERN UNIVERSITY

Shediac High School (N. B., Can.)	Vocational High School (New London, Conn.)
Somersworth High School (N. H.)	Wakefield High School
Somerville High School	Waltham High School
Somerville Evening High School	Watertown High School
South Boston High School	Wellesley High School
Springfield Technical High School	West Roxbury High School
St. Mary's High School	Weymouth High School
Stoneham High School	Wilmington High School
Summerside High School	Winchester High School
Taunton High School	Winthrop High School
Templeton High School	Woburn High School
Thayer Academy	Woodstock High School
Troy High School (N. Y.)	Wrentham High School
Valdesta Academy (Louisiana)	

### Positions Held by Graduates

The graduates of the School are in constant demand, and it may be said that those who complete one of the courses successfully can be sure of desirable employment in their chosen lines.

Naturally the School does not guarantee to place its graduates in positions. This is not necessary since our graduates have no difficulty in finding places for themselves.

### Special Students

A special student may take any subject, upon the approval of the Dean, provided he has had the necessary preliminary training.

### Diplomas

Upon the satisfactory completion of any of the regular curriculums, the student is entitled to receive a diploma. A fee of five dollars is required of all candidates for a diploma. This fee must be paid on or before May 1.

## **EVENING POLYTECHNIC SCHOOL**

### **EQUIPMENT**

---

#### **Field Instruments of Civil Engineering**

For work in the field, the Civil Engineering Department possesses various surveying instruments, representing the principal makes and types in general use.

The equipment includes four surveyor's compasses, two Keuffel & Esser transits, five Buff & Buff transits, one Buff & Buff triangulation transit, two Hutchinson transits, one Poole transit, two Berger levels, two Keuffel & Esser levels, one Bausch & Lomb precise level, two Gurley plane tables, two Buff & Buff plane tables, and two Keuffel & Esser plane tables.

There are Locke hand levels, flag poles, leveling rods, stadia rods, engineers' and surveyors' chains, steel and metallic tapes, and all the miscellaneous equipment necessary to outfit the parties that the instruments will accommodate. The transits are equipped with neutral glasses and reflectors for astronomical observations. For higher surveying there is an aneroid barometer for barometric leveling, an Invar tape, a sextant for hydrographic surveying, and a Gurley electric current meter for hydraulic measurements.

The extent of the equipment and scope of the field work itself are designed to train the student's judgment as to the relative merits of the various types of field instruments.

#### **Testing Materials Laboratory**

This laboratory is equipped with a 50,000 pound Olsen Testing Machine, by means of which experiments in tension, compression, shear and cross bending can be conducted.

For testing the gradations of concrete aggregate and the fineness of cement a Ro-Tap Sieve Shaker, with a special timing device has been installed.

These machines together with accessory tools and appliances provide complete means of testing the strength of steel, iron, wood and concrete specimens, subjected to all kinds of stress that are met with in construction, or manufacture.

## NORTHEASTERN UNIVERSITY

### Mechanical Laboratories

The Mechanical Engineering Department has a well-equipped laboratory, containing new and up-to-date machines run by steam, gas, and electricity. A fifty horsepower uniflow engine of the latest design is available for making a complete engine test. This engine is equipped with a Prony brake for measuring the output. A surface condenser is connected into the line with the engine. A Chicago steam-driven air compressor is completely equipped for making tests on both the steam and air ends of the machine and this is also tied in with the surface condenser. A Sturtevant air blower, motor-driven, is arranged to run a complete test on. Other steam-driven apparatus includes a steam pulsometer, and steam injector.

Under the hydraulic equipment in the Laboratory may be listed a triple power pump, motor-driven, a hydraulic motor of the Pelton Wheel type, a triangular weir for measuring flow of water, besides the necessary tanks and weighing scales.

In addition to the steam-driven apparatus and machines for hydraulic purposes, there is a Gas Laboratory consisting of a Fairbanks-Morse 10-horsepower oil and gas engine, so set up that tests may be run using various kinds of fuels and complete test data obtained; a Ford automobile engine arranged to run tests with different fuels and carburetors, and a gasoline airplane engine for demonstration purposes.

The steam-power plant is also available for testing purposes. The plant is equipped with a flow meter in the feed water line, steam-pressure gauges, scales, electrical meters, thermometers, indicators, Orsat apparatus, CO<sub>2</sub> recorder and other equipment necessary for complete power-plant tests. The plant consists of four horizontal return tubular boilers two of which are equipped for burning fuel oil and two for burning coal; various auxiliary appliances as feed water pumps, feed water heater, oil fuel pumps, and separators; and four three-wire generators, three of which are driven by Ridgeway reciprocating steam engines, and the fourth is directly connected to a Westinghouse Parsons turbine.



## EVENING POLYTECHNIC SCHOOL

This places at the disposal of the students well-equipped, up-to-date engineering laboratories and enables them to carry on boiler tests, with both coal and oil as fuel, determine the efficiencies of various fuels, determine the efficiency of modern reciprocating steam engines of different types, and test air compressors, fans, pumps, water wheels and gas engines. This renders the student familiar with the various auxiliary appliances of a modern power plant. Apparatus is also available for slide valve setting, gauge testing, measuring flow of air, steam, and water, prony brake testing and determining the quality of steam by means of a throttling calorimeter.

### Electrical Measurements Laboratory

This laboratory is equipped with apparatus of two distinct types, first that planned fundamentally for teaching the principles of measurement and, second, that which is used in teaching advanced standardizing methods as well as for keeping the instruments in daily use in the other laboratories, as well as in the power house, correct or properly calibrated.

It is supplied with two sets of small storage cells for 500-volt calibration work and a set of 500-ampere-hour cells for current work.

The apparatus used in the first portion of the work includes the customary devices used in such work as resistance measurements by Ohm's law, direct deflection and substitution methods, voltmeter methods for high resistance, insulation resistance, specific resistance, use of slide wire and Wheatstone bridges, electrostatic capacity, Poggendorf's method of E. M. F. comparison, loop tests for grounds, etc.

For the second type of work there is a Laboratory standard Wheatstone bridge, two Kelvin bridges one of the self-contained type, a Leeds Northrup make Carey-Foster bridge and equipment, two potentiometers with auxiliary apparatus of volt boxes, standard cells, standard shunts of 10, 100, and 500 amperes capacity, a set of resistance standards of Bureau of Standards and also of Reichsanstalt patterns; Weston standard

## NORTHEASTERN UNIVERSITY

current transformer, Weston Laboratory standard triple range voltmeter, ammeter and wattmeter for alternating current work and all necessary galvanometers carried on Julius suspensions.

There have been added, first a complete Reichsanstalt daylight type photometer equipment, and second a Westinghouse portable oscillograph with full equipment; so that the Laboratory is now ready for practically any work in electrical measurements outside the absolute determination as carried on in the National standardizing laboratories.

The instrument room is supplied with 54 high grade General Electric Co. and Weston Electric Instrument Co. alternating current voltmeters and ammeters with a number of potential and current transformers, and with 6 polyphase and 10 single-phase indicating wattmeters each of double current and double voltage ranges.

For direct current working there are 48 voltmeters (of triple range), ammeters, and millivoltmeters of the above makes. There are 30 standard shunts of ranges from 10 to 100 amperes with uniform drops of 50 millivolts to go with the millivoltmeters.

There is also a large and varied assortment of auxiliary equipment such as sliding rheostats for circuit control, loading resistances, frequency indicators, power factor indicators, etc.

### **Electrical Engineering Laboratory**

This Laboratory also was entirely remodeled during the summer of 1922. Its floor area was increased by sixty per cent, and the apparatus rearranged as well as augmented along various lines.

It is equipped with 40 generators and motors of different types, the size and voltage ratings being selected to reduce as much as possible the risk from high voltage apparatus while making available to the student commercial apparatus such that the various quantities it is desired to measure will be of reasonable dimensions.

## EVENING POLYTECHNIC SCHOOL

Machines from 5 to 25 kilowatt capacity are used principally for this reason, but also because the student in his engineering practice early comes in contact with large and varied machinery in power houses and electrical plants generally.

For D. C. working, among others there are two sets of specially matched direct current 6-kilowatt, 125-volt compound generators, which will still work as shunt machines. One set is driven by a large Sprague motor with double extended shaft, the two generators being tied together by a coupling so that they may be used for "pump-back" testing. The other pair are driven individually by 10-kilowatt, 230-volt motors and used principally for parallel operation and similar work. A large 230-volt, 12-kilowatt., 200-R.P.M. Sturtevant motor is used for retardation tests, and an assortment of series, shunt and compound motors each fitted with brake wheels are used for routine motor testing.

For A. C. working there is a 15-kilowatt (80 per cent p. f.) 3-phase 230-volt alternator driven at 60 cycles by a 25-H.P. Westinghouse motor, a 7.5-kilowatt special G. E. machine with special armature taps so that it may be used as single phase, two phase, three or six-phase synchronous motor.

Two 12-kilowatt (80 per cent p.f.) G. E. machines having each armature coil tapped out separately also giving the above phase arrangements, each driven by its own motor and available for use either as synchronous generators or as motors. A 5-kilowatt Holtzer Cabot machine with three rotors, making it available as either a squirrel cage, wound rotor, or synchronous machine. A. G. E. single phase clutch motor, a type R. I. induction motor, a Wagner single phase motor; two Wagner motors arranged for concatenation control, two 5-kilowatt Holtzer three-phase synchronous converters, and a Westinghouse 7.5-kilowatt two-phase motor.

For transformers there are six single-phase G. E. type H units wound for 550 volts primary and 220/110 volts secondary. Two sets of transformers with Scott transformation taps, a Type R. O. constant current transformer primary winding for 220/190 volts and secondary for 6.6 amperes, 310 volts

## NORTHEASTERN UNIVERSITY

maximum fitted with a load of 80 candlepower 6.6 amperes 60-watt nitrogen filled tungsten lamps, and a pair of 550/220, 110 volts G. E. three-phase transformers of 7.5-kilowatt capacity.

There is also a full equipment of necessary control and regulating appliances and 18 movable test tables fitted with the necessary terminals, switches, circuit breakers, etc., for setting up the various test combinations required from time to time. Each student when performing an experiment does the complete wiring, no apparatus in the Laboratory being found permanently wired up except as to its normal, self-contained circuits.

The Laboratory equipment is steadily being added to throughout the school year as the occasion arises so that a complete up-to-date list can not be given, also because as apparatus becomes obsolete it is discarded and replaced by the most recent type.

Power is supplied over a special set of feeders, by one or both of two special units in the power house which when on Laboratory service are cut clear from any other service whatsoever and potential is controlled from the laboratory.

For the second class of tests there are a laboratory standard Wheatstone bridge, Kelvin bridge, fittings for using the Carey-Foster method, two Leeds Northrup potentiometers (a high and low resistance one) with auxiliary apparatus as volt boxes, certified standard cells, standard shunts, standard current transformers, Weston Laboratory standard A. C. voltmeter of triple range, ammeter (also of triple range), wattmeter, and all necessary reflecting galvanometers carried on Julius suspensions.

The instrument room is supplied with 48 high grade General Electric Co. and Weston Electric Instrument Co. alternating current voltmeters and ammeters with a number of potential and current transformers, and with 5 polyphase and 9 single-phase indicating wattmeters each of double current and double voltage ranges.

For direct current working there are 41 voltmeters (of

## EVENING POLYTECHNIC SCHOOL

triple range), ammeters and millivoltmeters of the above makes. There are 24 standard shunts of ranges from 10 to 100 amperes with uniform drops of 50 millivolts to go with the millivoltmeters.

There is also a large and varied assortment of auxiliary equipment such as sliding rheostats for circuit control, loading resistances, frequency indicators, power factor indicators, etc.

### Chemical Laboratories

The laboratories are arranged in three units, one for each of the general branches of chemistry; *i. e.*, inorganic, analytical and organic. To meet the requirements of the inorganic work, the equipment has been very carefully selected. The laboratory for analytical work is well supplied with the usual apparatus, and also apparatus for special work. Connected with this laboratory is a modernly equipped balance room.

This special equipment includes a Freas electric drying oven, a Kimley electro-analysis apparatus, an Emerson bomb calorimeter, an Arsat apparatus for gas analysis, a Saybolt viscosimeter, New York State flash point tester, a Babcock milk tester, a Hoskins electric combustion furnace and a Shriver type filter press.

The laboratory for organic work is especially equipped with steam lines for distillation purposes, besides the usual steam baths, drying closets, compressed air lines and hoods. The common chemicals, including acids, bases and salts, are available in the laboratories for general use at all times. At the end of one of the laboratories, conveniently located, is a fully equipped stock room, from which any other chemical or apparatus can be readily obtained.

### Design and Drafting Rooms

The School possesses large, light, and well-equipped drawing rooms for the carrying on of the designing and drafting which form so important a part of engineering work. These rooms

## NORTHEASTERN UNIVERSITY

are supplied with lockers containing the drawing supplies, and files containing blue prints, and photographs of machines and structures that represent the best practice.

### Physics Laboratories

The Physics Department has two large laboratories completely equipped with all necessary apparatus for the experimental work that is required of the students, as well as that required for lecture demonstration. The apparatus and equipment includes verniers, levels, vacuum pump, spirometer, planimeters, spherometers, calorimeters, thermometers, pyrometer, sonometer, spectroscope, spectrometer, balances, standard gram weight, lecture table galvanometer, optical disk with all accessories, lenses, photometer, air thermometer, and a full set of weather bureau apparatus, including barograph, thermograph, hygrometer, barometer, maximum and minimum thermometers, etc. These give a wide range to the experimental work that can be done.

### Libraries

Students of the School have available for their use the University Library, which includes a large collection of engineering texts, reference books, and current periodicals on engineering and scientific subjects, and also the general library of the Association.

All members of the School have the privilege of taking books from the Boston Public Library, which offers a very unusual opportunity to our non-resident students. The School is within easy access of the Public Library, which enables students to have unlimited reference to engineering subjects at any time.

Still other libraries, such as the State Library, the library of the Massachusetts Historical Society, and the library of the American Academy of Arts and Sciences furnish re-enforcement in particular fields.

## **EVENING POLYTECHNIC SCHOOL**

### **Equipment for Physical Training**

Northeastern has exceptional facilities for all-round physical training. The gymnasium with its 12-lap running track, three basketball courts, wrestling, boxing, fencing and special exercise rooms, handball courts and bowling alleys, is one of the most complete in New England. The natatorium is one of the best in the country. It is in a separate building, having a glass roof, admitting abundant sunlight, and has a continuous supply of filtered salt water. The tank is 75 feet long and 25 feet wide. Adjoining the building is a large field equipped for athletics. Here are four tennis courts, outdoor gymnasium, basketball court, jumping pits and a track with a 100-yard straight-away; baseball and football fields.

# NORTHEASTERN UNIVERSITY

## CURRICULUMS OF STUDY

---

### General Statement

Schedules of the various curriculums are given on the following pages. The work of the first year is practically the same for all curriculums. A few exceptions are necessarily made to meet the student's need of elementary training in his professional subjects.

The school year consists of twenty-eight weeks of class work and examinations. The twenty-eight weeks are divided into two semesters of fourteen weeks each. The subjects in the curriculum outlines on the following pages have been arranged by terms. Opposite each subject will be found the number of sixty minute periods devoted to class, recitation, laboratory, or drawing-room work. The number in parenthesis, following the subject, is the number by which that subject is identified in the descriptive matter under "Subjects of Instruction."

When a student elects a curriculum, he is required to complete all subjects in that curriculum in order to receive a diploma. No subject may be dropped or omitted without the consent of the Dean.



# **EVENING POLYTECHNIC SCHOOL**

## **I. CIVIL ENGINEERING**

The purpose of this curriculum is to give the student an education in those subjects which form the basis of all branches of technical education, and a special training in those subjects comprised under the term "Civil Engineering." It is designed to give the student sound training, both theoretical and practical, in the sciences upon which professional practice is based.

Civil Engineering covers such a broad field that no one can become expert, in its whole extent. It includes Topographical Engineering, Municipal Engineering and Railroad Engineering. It covers land surveying, the construction of sewers, waterworks, roads and streets. All these branches of Engineering rest, however, upon a relatively compact body of principles. The students are trained by practice in the class room, drawing room, and the field.

The curriculum is designed to prepare the young engineer to take up the work of assisting in the location and construction of steam and electric railways, sewerage and water-supply systems, etc.

### **FRESHMAN YEAR**

FIRST SEMESTER		SECOND SEMESTER	
	Periods per week		Periods per week
Mathematics (1).....	2	Trigonometry (2).....	2
Practical Physics (5).....	2	Practical Physics (5).....	2
Mechanical Drawing (6).....	2	Mechanical Drawing (6).....	2

### **JUNIOR YEAR**

FIRST SEMESTER		SECOND SEMESTER	
	Periods per week		Periods per week
Analytical Geometry (3)....	2	Calculus (4).....	2
Surveying (7).....	2	Surveying (7).....	2
Topographical Drawing (8)....	2	Highway Engineering (9).....	2

### **SENIOR YEAR**

FIRST SEMESTER		SECOND SEMESTER	
	Periods per week		Periods per week
Applied Mechanics (12).....	2	Strength of Materials I (13)....	2
Railroad Engineering (10).....	2	Railroad Engineering (10).....	2
Railroad Engineering Drawing (11)	2	Railroad Engineering Drawing (11)	2

# NORTHEASTERN UNIVERSITY

## II. MECHANICAL ENGINEERING

This curriculum is designed to give a foundation in those fundamental subjects which form the basis for all professional engineering practice, and especially to equip the young engineer with a knowledge of the various phases of Mechanical Engineering. The course embraces instruction by textbook, lecture, and drawing room.

All the mathematics required in the designing of machinery is given during the first two years so as to prepare for the designing and engineering courses given during the third year. The sequence of subjects from those of an elementary nature to Heat Engineering, Machine Design, and Power Appliances is arranged so that the student may have a complete understanding of the advanced courses.

The curriculum affords training in the methods, and gives practice in the process of construction, which develops in the student the capacity for thinking along mechanical lines, thus enabling him to base all his work upon fundamental principles already learned, rather than upon empirical rules. It gives the student a good theoretical training and meanwhile devotes sufficient time to the practical work, so that he may become a proficient engineer, both in theory and in practice, in the various branches of Mechanical Engineering.

### FRESHMAN YEAR

FIRST SEMESTER	Periods per week	SECOND SEMESTER	Periods per week
Mathematics (1).....	2	Trigonometry (2).....	2
Practical Physics (5).....	2	Practical Physics (5).....	2
Mechanical Drawing (6).....	2	Mechanical Drawing (6).....	2

### JUNIOR YEAR

FIRST SEMESTER	Periods per week	SECOND SEMESTER	Periods per week
Analytical Geometry (3).....	2	Calculus (4).....	2
Engineering Drawing (18).....	2	Engineering Drawing (18).....	2
Applied Mechanics (12).....	2	Strength of Materials I (13)....	2

### SENIOR YEAR

FIRST SEMESTER	Periods per week	SECOND SEMESTER	Periods per week
Heat Engineering (20).....	2	Heat Engineering (20).....	2
Machine Design (19).....	2	Machine Design (19).....	2
Strength of Materials II (14)...	2	Concrete Construction (41).....	2

# EVENING POLYTECHNIC SCHOOL

## III. ELECTRICAL ENGINEERING

The applications of electricity have developed rapidly in recent years, and students are required to have a good working knowledge of Mathematics and Physics. It is essential that students planning to take this course should realize the fundamental necessity of obtaining a solid grounding in these subjects.

The instruction has been carefully balanced between recitations, lectures, home work, reports and laboratory tests in order to develop in the student the power of perception, of rational thinking, and of applying theoretical principles to practical problems.

It is not the purpose of the curriculum to attempt the impossible—to turn out fully trained engineers in any of the various branches of the science. It is designed to lay a thorough foundation for future progress along the lines of work which may particularly appeal to the individual, and give him an adequate working acquaintance with the essential principles which underlie each of the more specialized branches of professional activity. Parallel with the theoretical work runs a carefully planned course of laboratory work which is intended to develop the student's powers of planning work for himself.

### FRESHMAN YEAR

FIRST SEMESTER	Periods per week	SECOND SEMESTER	Periods per week
Mathematics (1).....	2	Trigonometry (2).....	2
Practical Physics (5).....	2	Practical Physics (5).....	2
Mechanical Drawing (6).....	2	Mechanical Drawing (6).....	2

### JUNIOR YEAR

FIRST SEMESTER	Periods per week	SECOND SEMESTER	Periods per week
Analytical Geometry (3).....	2	Calculus (4).....	2
Direct Currents Lecture (21)...	2	Direct Currents Lecture (21)...	2
Direct Currents Laboratory (22)	2	Direct Currents Laboratory (22)	2

### SENIOR YEAR

FIRST SEMESTER	Periods per week	SECOND SEMESTER	Periods per week
Alternating Currents Lectures (23)	2	Alternating Currents Lectures (23)	2
Alternating Currents Laboratory (24).....	2	Alternating Currents Laboratory (24).....	2
Heat Engineering (20).....	2	Heat Engineering (20).....	2

# NORTHEASTERN UNIVERSITY

## IV. CHEMISTRY

The growth, within the last few years, of the chemical industry in this country has created a new interest in the science of chemistry. An increasing demand for chemists who possess a comprehensive and intimate knowledge of the general and special fields of the science is felt more and more keenly. The chemist should be thoroughly trained in the methods of research, in order that he may improve the old and initiate new methods of production.

The objective of the first year is to give to the student a thorough knowledge of Inorganic Chemistry with particular emphasis upon those topics which are necessary for a proper understanding of other branches of chemistry.

Theoretical instruction in Qualitative and Quantitative Analysis is given the second year. Both lectures and recitations are used in the instruction of these subjects. Students pursuing this course begin with the determination of simple substances and gradually progress to more complex commercial products. In Organic Chemistry special emphasis is laid on organic synthesis, preparation of dye intermediates, finished dyestuffs and compounds of commercial importance.

### FRESHMAN YEAR

FIRST SEMESTER	Periods per week	SECOND SEMESTER	Periods per week
Mathematics (1) .....	2	Trigonometry (2) .....	2
Inorganic Chemistry Lectures (25)	2	Inorganic Chemistry Lectures (25)	2
Inorganic Chemistry Laboratory (26) .....	2	Inorganic Chemistry Laboratory (26) .....	2

### \*JUNIOR YEAR

FIRST SEMESTER	Periods per week	SECOND SEMESTER	Periods per week
Analytical Chemistry Lectures (27)	2	Analytical Chemistry Lectures (27)	2
Analytical Chemistry Laboratory (28) .....	4	Analytical Chemistry Laboratory (28) .....	4

### \*SENIOR YEAR

FIRST SEMESTER	Periods per week	SECOND SEMESTER	Periods per week
Organic Chemistry Lectures (29)	2	Organic Chemistry, Lectures (29)	2
Organic Chemistry, Laboratory (30)	4	Organic Chemistry, Laboratory (30)	4

\*The work of the second and third years alternate. Second and third year students will take the work together.

# NORTHEASTERN UNIVERSITY

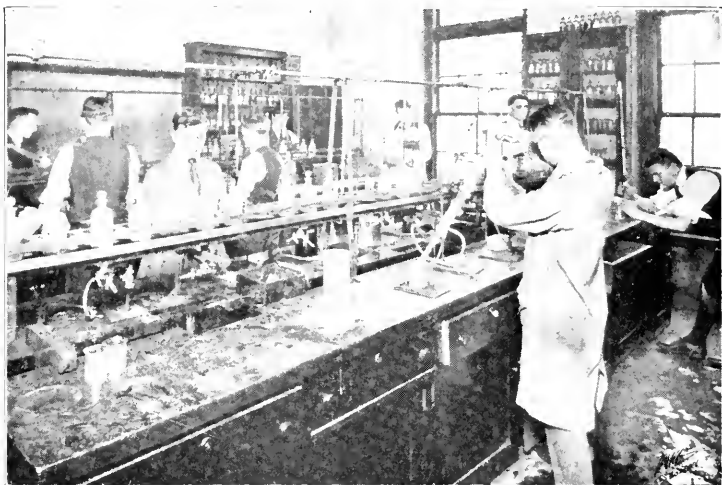


CORNER OF ELECTRICAL LABORATORY

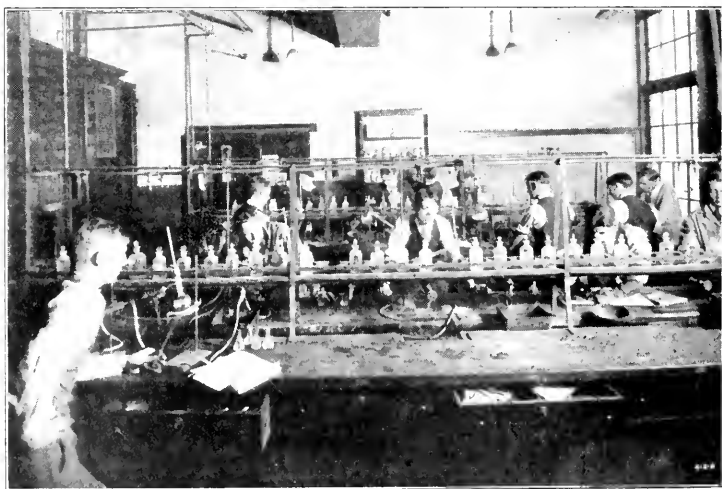


CORNER OF ELECTRICAL EXPERIMENT LABORATORY

## EVENING POLYTECHNIC SCHOOL



CLASS IN ANALYTICAL CHEMISTRY LABORATORY



CLASS IN ORGANIC CHEMISTRY

# EVENING POLYTECHNIC SCHOOL

## V. STRUCTURAL ENGINEERING

The purpose of this curriculum is to give the student a special training in those subjects included in the term "Structural Engineering." It is designed to give the student sound and thorough training in the science upon which professional practice is based.

Structural Engineering covers such a broad field that no one can become expert in its whole extent. It includes the design and construction of girders, columns, roofs, trusses, arches, bridges, buildings, walks, dams, foundations and all fixed structures and movable bridges. It includes a knowledge of the relative merits of the design and construction of buildings, bridges, and structures composed of different materials used by the engineer, such as concrete, reinforced concrete, timber, cast iron, and steel.

The curriculum is so arranged as to prepare the young engineer to take up the work of assisting in the design and construction of structures; to undertake intelligently supervision of erection work in the field; and general contracting.

### FRESHMAN YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Periods per week		Periods per week
Mathematics (1) . . . . .	2	Trigonometry (2) . . . . .	2
Practical Physics (5) . . . . .	2	Practical Physics (5) . . . . .	2
Mechanical Drawing (6) . . . . .	2	Mechanical Drawing (6) . . . . .	2

### JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Periods per week		Periods per week
Analytical Geometry (3) . . . . .	2	Calculus (4) . . . . .	2
Applied Mechanics (12) . . . . .	2	Strength of Materials I (13) . . . . .	2
Structural Drawing (15) . . . . .	2	Structural Drawing (15) . . . . .	2

### SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Periods per week		Periods per week
Strength of Materials II (14) . . . . .	2	Concrete Construction (41) . . . . .	2
Theory of Structures (16) . . . . .	2	Theory of Structures (16) . . . . .	2
Structural Design (17) . . . . .	2	Structural Design (17) . . . . .	2

# NORTHEASTERN UNIVERSITY

## SUBJECTS OF INSTRUCTION

---

Instruction is given by means of lectures, recitations, practical exercise in the field, laboratories, and drawing rooms. Great value is set upon the educational effect of these exercises, which constitute the foundation of each of the courses. Text-books are used in many subjects, but not in all. In many branches the instruction given differs widely from available text-books, and in most of such cases, notes on the lectures and laboratory work are furnished to the students. Besides oral examinations in connection with the ordinary exercises, written examinations are held from time to time.

In the following pages will be found a detailed statement of the scope of the subjects offered in the various courses. The subjects are classified, as far as possible, related studies being arranged in sequence.

The subjects are numbered, or numbered and lettered, for convenience of reference in consulting the various curriculum schedules.

Required courses, and those pre-requisite thereto, must have been successfully pursued before any advance course may be taken. In order to carry properly the more advanced subjects, the student must have become proficient in all the elementary subjects. Some studies, specified as being required in preparation, may be taken simultaneously. The student must complete such subjects before starting on more advanced work.

By careful consideration of the curriculum schedules, in connection with the following description of subjects, the applicant for a special course may select, for the earlier part of that course, such subjects as will enable him to pursue later those more advanced subjects which he may particularly desire.

The topics included in the list which follows are subject to change at any time by action of the school authorities.



# **EVENING POLYTECHNIC SCHOOL**

## **SYNOPSIS OF SUBJECTS**

---

### **Regular Courses**

#### **1. Mathematics**

**Preparation: Elementary Algebra and Elementary Plane Geometry**

This course is taken by all regular students during the freshman year, and consist of a general review of algebra up to quadratic equations, and a study of quadratic equations, ratio and proportion, variation, and the use of formulas, with special applications to problems in Physics and Engineering. It also covers a rapid review of the useful theorems of Plane Geometry with special reference to mensuration.

#### **2. Trigonometry**

**Preparation: 1**

This course consists of lectures and recitations covering logarithms, radians, co-ordinates, trigonometric ratios, formulas, law of sines, law of cosines, law of tangents, solution of right and oblique triangles with applications to problems in engineering. Instruction is also given in the theory and use of the slide rule. Practical problems involving the application of trigonometry to engineering are assigned during the entire course.

#### **3. Analytical Geometry**

**Preparation: 2**

In this course instruction is given by lectures and recitations in the following subjects: plotting of functions, interpolation, the straight line, the conic sections, curves represented by various equations of common occurrence in engineering, graphic solution of equations, determination of laws from the data of experiments, simplification of formulas. The plotting and analysis of charts in order to determine empirical formulas is an important part of the course.

#### **4. Calculus**

**Preparation: 2 and 3**

This course is taken by all regular engineering students during the second semester of the junior year. Instruction is

## NORTHEASTERN UNIVERSITY

given by lectures and recitations in the following subjects: rate of change, differentiation, maximum and minimum, integration, definite integrals, with application to the determination of mean value, area, volume, center of gravity and moment of inertia. Problems are assigned to illustrate the use of all the formulas studied in class.

### 5. Practical Physics

Preparation: 1

This course consists of one lecture and one problem period each week throughout the freshman year. Instruction is given in the practical application of the laws of Physics. Each lecture is accompanied, as far as possible, by lecture table experiments on large-sized apparatus, built especially for this course so that the student may actually see a demonstration of the truth of the various laws, thus enabling him to grasp more readily the underlying principles. This course includes the study of the mechanics of solids, liquids, and gases, heat and its effects, and the principles of light and sound. Practical problems covering each phase of the work are given throughout the year which are designed to fix in the student's mind the principles taken up in the lectures. The problem period gives the student a more thorough understanding of the application of the principles discussed in the lectures by the solution of practical problems.

### 6. Mechanical Drawing

The course is planned to meet the requirements of a class composed of students who have had no previous instruction in drafting and also for those who may have had one or two years' work in preparatory schools.

Instruction is given in the proper care and use of drawing instruments, T-square, and triangles, and about twenty drawings are made, including geometrical constructions, orthographic and isometric projections, development, dimensioning, and lettering, thus giving the student a thorough training in the fundamental principles of mechanical drawing so that he may easily do the drafting required in his professional course.

## **EVENING POLYTECHNIC SCHOOL**

Few formal lectures are given since the class room work is almost entirely individual, permitting the student to progress at a rate commensurate with his own ability.

### **7. Surveying**

**Preparation: 2**

This course is devoted to the study of surveying instruments, the methods of making surveys, the methods of plotting surveys as completed maps, and the solution of problems in plane surveying. Also, a study of the theory of geodetic surveying, solar and stellar observations, and the adjustments of instruments. Emphasis is laid on field note-keeping and on the construction and use of various plans with which the surveyor should be familiar.

### **8. Topographical Drawing**

**Preparation: 6**

The first half of the course is devoted to a study of the various conventional symbols used in the drawing of topographical maps. Each student is required to familiarize himself with these symbols and make an inked drawing containing several of them. Reasonable proficiency in the use of and application to maps is expected. The latter part of the course is given over to the making of a contour map from field notes, then applying typical problems of earthwork, such as figuring volumes, balancing cuts and fills, grading, etc.

### **9. Highway Engineering**

**Preparation: 7**

The course is outlined to give the student the principles and practice of modern highway engineering. This is not entirely a lecture course, for much time is given to the discussion of the relative merits of numerous phases of the subject. The first part of the course considers the preliminary investigation, design, drainage, foundations, and layout, for gravel, earth and broken stone roads, including the use of bituminous materials. The latter part of the course considers several classes of pavements, including bituminous concrete, bituminous

## NORTHEASTERN UNIVERSITY

gravel, and macadam, asphalt, wood-block, stone block, concrete, and brick. Some time is devoted to studying sidewalks, curbs, bridges, culverts, and pipe systems.

### **10. Railroad Engineering**

**Preparation: 7**

This course consists of instruction in the computation and methods of laying out simple, compound, reverse, vertical and easement curves; frogs, switches, and turnouts; the computation of earthwork from cross-section notes; setting slope-stakes and general consideration of more advanced problems of Railroad Engineering. Special emphasis is laid on field notes and field methods.

### **11. Railroad Engineering Drawing**

**Preparation: 6, 10**

The first semester is devoted to the construction of a plan and a profile of a preliminary survey for a railroad. This is made from field notes of an actual survey and each student decides on his own location by the aid of a mass diagram. Comparisons are made as to the total cost of each student's location. The second semester is devoted to the design and lay-out of a typical railroad yard as located at the end of a division. This includes the design of reversed curves, ladder tracks and the proper entrance to an engine round house. The course is supplemented by lectures.

### **12. Applied Mechanics**

**Preparation: 2, 5**

A course of lectures and recitations comprising a study of the general methods and application of statics to structures in equilibrium, including concurrent, parallel, and nonconcurrent systems, and forces in three dimensions. Considerable time is devoted to tension and compression in frames, the computations of the reactions, the method of joints, and the manner of distinguishing members containing bending stresses. Vector diagrams are drawn to show the principles of graphical

## **EVENING POLYTECHNIC SCHOOL**

methods. Problems are used and assigned continuously to illustrate the underlying facts of the subject.

### **13. Strength of Materials I**

**Preparation: 12**

This course comprises the study of the strength of structural shapes in tension, compression, and bending. The subjects stated are the stresses and strains in bodies subjected to tension, compression and shearing; common theory of beams with thorough description of the distribution of stresses, shearing forces, and bending moments; longitudinal shear; slope and deflection; also the design of riveted joints and the stresses in simple frames subjected to external forces.

### **14. Strength of Materials II**

**Preparation: 13**

This is a continuation of Strength of Materials I in which a study is made of the strength of shafting and springs; combined stresses in beams subjected to tension, compression, bending and torsion; also of the strength of hooks, columns and thin hollow cylinders, and brief consideration of strains and the relation of the stresses on different planes in a body. Kinematics and dynamics are also taken up, including the uniform and varying rectilinear motion, centrifugal force, work, power and kinetic energy.

The methods of testing and the strength of various materials used by the engineer is also taken up in this course. The methods of manufacturing, properties and uses, of materials used in mechanical engineering work, such as iron, steel, and concrete are carefully studied.

### **15. Structural Drawing**

**Preparation: 6, 12**

The course in structural drawing consists in the working out of various graphical problems of mechanics on the drawing board, drawing standard sections of structural steel shapes, structural details and the preparation of drawings, represent-

## NORTHEASTERN UNIVERSITY

ing simple structures. The purpose of this course is to familiarize the student with detailed drawings and teach him where and how to dimension structural parts on working drawings.

### 16. Theory of Structures

Preparation: 14

This course consists of lectures, recitations and solution of problems. Instruction is given in the fundamental theory of structures, including the theory of beams, trusses, computation of reactions, moments and shears for static and moving loads by the use of shear diagrams, moment diagrams and influence lines. The work in the classroom is supplemented by the solution of practical problems in structural design.

### 17. Structural Design

Preparation: 15, 16

The course in structural design consists of work in the drawing room. It is a continuation of the course in structural drawing given in the second year, and includes the execution of elementary structural design, taking up in a practical way the principles of the course in Theory of Structures. Each student is given data for various problems, the designs for which he works out in the drawing room, making all necessary computations and executing all drawings necessary for the preparation of complete designs of a number of engineering structures.

### 18. Engineering Drawing

Preparation: 6

This course is a continuation of Mechanical Drawing, and includes the assembly of detailed drawings and detailing of assembled drawings of machines and machine parts. The principles of mechanism are studied. The problem work takes up the design of pulleys, bolts, belts, gearing, and gear teeth development, cams and quick return motions used in machine tools such as shapers, slotters, and planers.

## **EVENING POLYTECHNIC SCHOOL**

### **19. Machine Design**

**Preparation: 14, 18**

This course aims to give the student practice in the application of theoretical principles previously studied and at the same time acquaint him with the many practical details which must be considered in design work. The problems taken up in the early part of the course are of a static nature, while the later problems involve dynamic stresses. The problems of the course vary from year to year, but the following are typical of the designs taken up; arbor press, hydraulic flanging, clamp, crane, air compressor, punch and shear, stonecrusher, etc.

In each design the constructive details are carefully considered with special attention to methods of manufacture, provision for wear, lubrication, etc. The work is based on rational rather than on empirical methods, the student being required to make all calculations for determining the sizes of the various parts and all necessary working drawings.

### **20. Heat Engineering**

**Preparation: 4, 5**

In order to satisfactorily understand the operation of the modern power plant it is essential that the theoretical principles be thoroughly understood. The course is, therefore, in the main theoretical but at all times the practical application of the principles under discussion are kept in view.

The first part of the course covers the laws of perfect gases, the laws of vapors, the use of the steam entropy table, heat transmission and combustion. The rest of the work covered is the application of these principles to air compressors, refrigeration machines, steam power plants and internal combustion engines.

### **21. Direct Currents, Lectures**

**Preparation: 5**

This course of lectures, recitations and problems during the second year deals with the subject of electrical phenomena in general, and then goes on to apply these principles to the direct current motor and generator, the greater stress being

## NORTHEASTERN UNIVERSITY

laid upon the operating characteristics of the various appliances dealt with. The course closes with some consideration of the three-wire system of distribution and calculation of voltage drops leading to the proper arrangement and sizes of feeders and mains.

### **22. Direct Currents, Laboratory**

**Preparation: 21 (taken concurrently)**

This course is not to be taken by a student who is not at the same time taking (or who has not previously taken) Course 21, unless the student desiring to take it passes satisfactorily an examination upon the entire subject matter of the preparatory course.

The experiments given herein are intended to supplement and illustrate that course as well as give the students an understanding of the principal methods of electrical testing. Each student is required to furnish a complete report, including theory, method of procedure, numerical results and conclusions drawn, for each experiment he performs.

The work in the Laboratory will not begin until after about eight of the lectures in Course 21 have been completed, or until the instructor in that course feels satisfied that sufficient theoretical progress has been made for the student to handle the laboratory apparatus and circuits with safety and use them intelligently.

### **23. Alternating Currents, Lectures**

**Preparation: 21**

A course of lectures, recitations, and problems during the senior year dealing with the principles of electro-magnetism electro-statics, variable currents, and harmonic currents, including both single and polyphase circuits. With this as a foundation, a careful, thorough and detailed discussion of the construction, theory, operating characteristics and testing of the various types of alternating current machinery is made. The subjects covered being transformers, synchronous generators, synchronous motors, parallel operation of alternators,



## EVENING POLYTECHNIC SCHOOL

synchronous convertors, polyphase induction motors, induction generators, single phase induction motors and commutating alternating current motors.

### **24. Alternating Currents, Laboratory**

**Preparation:** 22 and 23 (taken concurrently)

This course is taken in connection with the corresponding class room work in alternating currents, and the experiments performed are related to that work.

Since the work is considerably more complex and difficult it is even more necessary that the student have adequate preparation, and he must either take Course 23 concurrently (or have already taken it), or pass a satisfactory examination upon the entire subject matter.

The Laboratory instruction will begin after five of the lectures in Course 23 have been covered.

### **25. Inorganic Chemistry**

A course of experimental lectures on the fundamental laws and principles of inorganic chemistry. Emphasis is placed on the study of elements, compounds and theories, which form a basis for more advanced courses in chemistry. Problems of a physio-chemical nature involving the gas laws; application of Avogadro's Hypothesis; the law of definite proportion; electrolytic dissociation and the law of mass action are assigned and discussed in class. Important physical principles including a study of the mechanics of solids, liquids and gases; heat and its effects; and elementary electricity are also given consideration.

### **26. Inorganic Chemistry, Laboratory**

**Preparation:** 25

By performing a number of selective experiments it is desired to develop a spirit of initiative, self-reliance, and research on the part of the student. It is important that the student performing the experiment observe what happens; consider why it happens; and predict the action of similar substances. The laboratory course is run in conjunction with the lectures,

## NORTHEASTERN UNIVERSITY

and experiments which verify principles discussed in class are included. By the preparation of elements and compounds such as oxygen, hydrogen, the halogens, hydrochloric acid, copper sulphate, etc., it is hoped to cultivate a scientific attitude and habit of thought on the part of the student. Neat and satisfactory notes are considered an essential part of the course.

### **27. Analytical Chemistry, Lectures**

**Preparation: 25**

This course takes up the rudiments of qualitative and quantitative analysis. In qualitative analysis not only the procedures used in the detection of the common elements are studied, but also the general principles involved, including hydrolysis, solubility product, amphoteric electrolytes, laws of solutions, and the general facts of inorganic chemistry. In quantitative analysis half of the time is devoted to gravimetric analysis including chloride, sulphate, and phosphate determinations. The other half of the time is devoted to volumetric analysis as illustrated by acid and alkali determinations, oxidation methods involving bichromate, permanganate, and iodine solutions, and the methods of volumetric precipitation. Special attention is given to the solution of numerical analytical problems of a practical nature.

### **28. Analytical Chemistry, Laboratory**

**Preparation: 27**

The qualitative laboratory course consists of a series of preliminary experiments illustrating principles and giving an opportunity for practice in writing equations. The analysis of unknown substances is undertaken, beginning with solutions and simple salts, and later analyzing minerals, pigments, slags, alloys and various commercial products, such as boiler compounds, cleaning powders, glass enamels and similar inorganic compounds. The course in quantitative analysis includes the calibration of burettes, the use of analytical balances, and a limited number of typical gravimetric and volumetric analyses in which great stress is laid on the accuracy, care, and integrity necessary for successful quantitative work.

## EVENING POLYTECHNIC SCHOOL

### 29. Organic Chemistry

Preparation: 27, 28

This course is devoted to lectures in the general principles and theories of organic chemistry, the methods of preparation and the characteristic reactions.

The student who is planning to fit himself for a life work in chemistry should take up organic chemistry in the spirit of respect of the magnitude and complexity of the subject. He must go through the difficulties and not over or around them. The subject is presented in a sufficiently elementary manner so as not to be beyond the grasp of the student in his first course in organic chemistry, yet comprehensive enough in that it covers the entire field by taking up practically all of the important groups of compounds.

Emphasis is placed on the study of unsaturation, the influence of structure and substituents on the activity of the radicals.

### 30. Organic Chemistry, Laboratory

Preparation: 29

This course includes two kinds of laboratory practice:

(a) Organic preparations. In this the student becomes familiar with the more common methods of manipulation and the more important synthetic processes, while the application of theory to the work in hand is constantly emphasized by regular conferences with individual students.

(b) Identification of Pure Organic Compounds. This part of the work has a similar educational value to that afforded by Qualitative Analyses in the inorganic field, and the student is expected to overcome all sources of error so as to acquire confidence in his results.

### 38. Architectural Drawing I

An elementary course, including the fundamental principles underlying all kinds of mechanical and architectural drawing; geometrical problems; orthographic and isometric projections; classical moldings; Roman alphabet and roof problems.

In connection with this course the instructor will outline a course of reading in architectural history.

## **NORTHEASTERN UNIVERSITY**

### **39. Architectural Drawing II**

**Preparation: 38**

The orders of Architecture. Practical architecture and details of construction. In this course the student is taught the component parts of buildings. Typical details of construction are drawn to a large scale and in isometric projection.

### **40. Architectural Drawing III**

**Preparation: 39**

This course covers the making of complete plans, elevations and working drawings of some elementary problem.

### **41. Concrete Construction**

A course in the theory and practice of concrete construction. It includes the design of foundations, buildings, bridges, and various types of plain and reinforced concrete structures.

# **EVENING POLYTECHNIC SCHOOL**

## **REGISTER OF STUDENTS** **Enrolled During the School Year**

"S" indicates Special Students

NAME	COURSE	YEAR	HOME ADDRESS
Adler, Arnold H.	V	1927	Brookline
Agar, Denis R.	II	1926	Boston
Akers, Gerald R.	III	1925	East Foxboro
Albert, Max G.	III	1927	Dorchester
Allen, Roy H.	S		Melrose
Anderson, Henry T.	II	1926	Boston
Anderson, James F.	II	1927	Medford
Andrews, Thomas P.	II	1927	Roslindale
Andrich, Alber	III	1926	Buenos Aires
Angell, Arthur A.	S	1927	Billerica
Atkins, Edward	III	1926	Wilmington
Aylward, William J.	S		Boston
Babcock, Robert F.	V	1927	Allston
Ballance, James	S	1925	Boston
Barrett, John N.	I	1927	Chelsea
Barry, Thomas H.	V	1926	Salem
Baxter, Charles E.	I	1926	Auburndale
Beers, Daniel B.	II	1925	Medford
Beldotti, Charles J.	III	1927	Cambridge
Benedict, Lawton D.	III	1927	Medford
Berthel, Charles F.	III	1925	Melrose
Bicknell, Frank H.	V	1927	Canton, Me.
Bird, Whitworth F.	S	1925	Marlboro
Blase, Lawrence C.	III	1927	Boston
Bliss, Clinton F.	III	1927	Somerville
Blomquist, Edwin F.	S	1926	Winthrop
Boardman, Henry C.	I	1927	Norfolk
Bogan, Hugh L., Jr.	S	1925	West Roxbury
Bortnick, Philip	III	1927	Boston
Bourque, Aurele W.	IV	1926	Boston
Bowen, Joseph	V	1927	Roxbury
Brady, Arthur N.	S	1927	Dorchester
Brough, Carroll N.	I	1927	Fitchburg
Brown, Abraham	S		Roxbury
Burbank, John C.	II	1927	Lynn
Bussey, Frederick W.	I	1925	Boston
Butler, Royal P.	IV	1927	Boston
Byrne, James J.	V	1926	Boston
Callanan, Walter	III	1926	Danvers
Camia, Victor	IV	1927	Revere
Campbell, Richard H.	III	1926	Greenfield
Carlson, Andrew B.	I	1927	Melrose
Cassidy, James R.	S	1927	North Billerica
Cave, William E.	II	1927	Allston
Chase, Raymond S.	II	1926	Brockton
Child, George T.	IV	1927	Woburn
Chitjian, Heratchia J.	V	1927	Boston
Clark, Henry W.	I	1927	Waltham

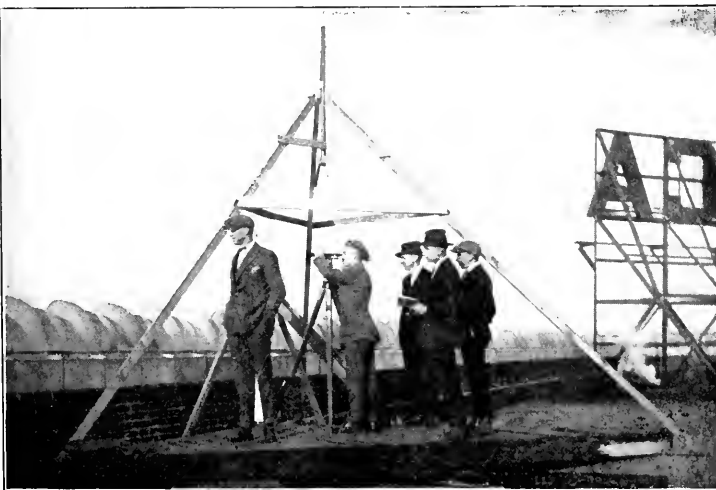
# NORTHEASTERN UNIVERSITY

NAME	COURSE	YEAR	HOME ADDRESS
Cleary, John F.	S	1926	Cambridge
Condon, James T.	I	1927	Rockland
Congdon, Newton W.	III	1927	Foxboro
Congdon, W. Creighton	III	1927	Foxboro
Conti, Hector	III	1926	Buenos Aires
Cook, Philip N.	II	1927	West Somerville
Corcoran, Arthur A.	V	1925	Roxbury
Coyne, John B.	S	1927	Salem
Culbert, Robert R.	S		Boston
Cummings, Richard E.	S	1926	Roslindale
Cunningham, Thomas A.	V	1927	Boston
Curtis, John H.	S		Natick
Cutts, Frank K.	V	1925	Roxbury
Dahlberg, Herman E.	S	1927	Boston
Danskin, Harcourt W.	II	1927	Arlington
Datow, Paul J.	III	1927	East Boston
Day, Walter P.	III	1927	New York
DeModena, Leo	II	1925	East Boston
d'Entremont, Earl J.	S	1927	Roslindale
DeRoa, Abbott	III	1927	Winthrop
DeSena, Philip J.	S	1927	East Boston
Devin, John J.	S	1927	Boston
Doherty, Hugh J.	IV	1927	Boston
Donovan, Cornelius F.	III	1927	Cambridge
Donovan, Henry L.	V	1925	Dorchester
Dresser, Willis	S	1927	South Boston
Drohen, Leo J.	III	1927	East Boston
Dunphy, Harold H.	V	1926	Island Falls, Me.
Dwyer, Thomas V.	I	1926	Watertown
Eagan, William J.	IV	1927	Peabody
Earle, Roland D.	IV	1925	Boston
Einbinder, Harry	III	1927	Boston
Espintu, Domingo	III	1927	Boston
Fawcett, William J.	III	1927	Cambridge
Fennessey, William E.	II	1927	Hyde Park
Ferrarini, Leo	V	1927	Somerville
Field, Franklin W.	III	1927	Boston
Finnegan, Edward F.	II	1927	South Braintree
Fishman, Joseph	IV	1925	Lynn
Fitch, Edson L.	III	1926	Roxbury
Fitzgerald, William J.	II	1926	Salem
Flaherty, James A.	III	1927	Dorchester
Forrest, Emery V.	S	1927	Norwood
Freckleton, Clarence	III	1927	Boston
Fultz, Harold F.	S	1925	Hingham
Fyler, William P.	III	1927	Somerville
Gavin, William A.	V	1926	Boston
Gilbert, Samuel	II	1925	Chelsea
Gonia, Walter H.	S	1927	Quincy
Goodman, Harry	S		Roxbury
Goodwin, Theodore R.	S		Winchester
Gorman, Paul	III	1925	Lynn
Grant, Emery F.	S	1926	Boston
Greene, David E.	II	1927	Brockton

# NORTHEASTERN UNIVERSITY

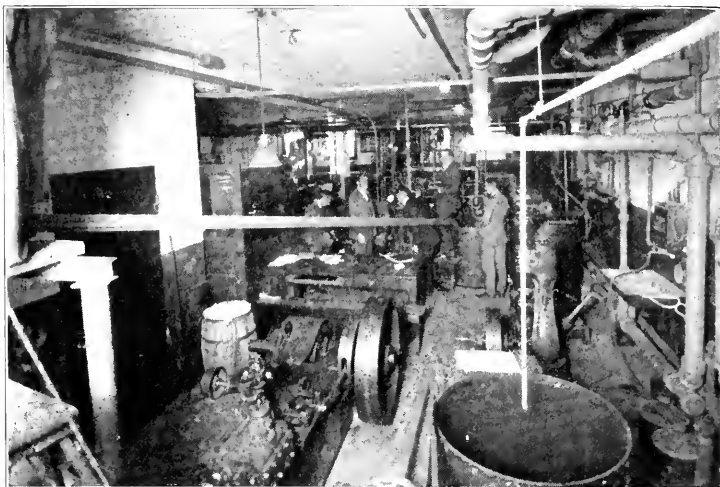


CLASS IN MECHANICAL DRAWING



TRIANGULATION SURVEYING

## EVENING POLYTECHNIC SCHOOL



SECTION OF MECHANICAL LABORATORY



CLASS IN RAILROAD ENGINEERING



## EVENING POLYTECHNIC SCHOOL

NAME	COURSE	YEAR	HOME ADDRESS
Griffin, John T.	III	1927	Quincy
Griffith, Percy R.	II	1927	Watertown
Guarciarriello, Anthony	V	1926	Boston
Gulesian, Manuel	S	1927	Mattapan
Guptill, Lawrence W.	V	1926	Somersworth, N. H.
Hally, Albert A.	III	1927	Ashland
Halpin, James E.	I	1927	Malden
Hammer, George S.	IV	1925	Lynn
Hanscom, Willis A.	S		Hyde Park
Harrington, Robert S.	III	1927	Stoneham
Harris, G. M.	S	1926	Boston
Hart, Stephen F.	II	1927	Dorchester
Hayes, John L.	II	1926	Salem
Hedberg, Carl E.	III	1927	Boston
Hedblom, Byron C.	II	1925	Woburn
Hill, Leonard F.	III	1925	Hyde Park
Hoen, H. H.	S	1925	Cambridge
Horne, Chester F.	III	1925	Marblehead
Hosman, William F.	III	1926	Peabody
Hue, Walter T.	I	1927	Boston
Hurlbert, George A.	III	1927	Dorchester
Huske, Charles	III	1925	Quincy
Jacot, Louis F.	S	1927	Boston
Jenney, John B.	II	1927	Gloucester
Johnson, Benjamin	I	1927	Revere
Johnson, Harry M.	II	1925	Everett
Johnson, Olaf H.	III	1925	Dorchester
Johnson, Walter A.	IV	1927	West Somerville
Jones, Louis F.	II	1926	Wollaston
Kaplan, Lewis J.	S		Revere
Kappler, Theodore W.	V	1927	Quincy
Kelly, Thomas J.	III	1927	Boston
King, Edward E.	III	1926	Norwood
King, Ernest S.	III	1926	Norwood
Knox, Maynard P.	III	1927	Somerville
Larson, Nils H.	III	1926	Roslindale
Lewis, Bruce	S	1926	Arlington Heights
Lynch, Allan J.	III	1927	Newton Lower Falls
Lynch, Bartholomew J.	I	1927	Dorchester
MacDonald, Gurney H.	V	1925	Medford
MacDonald, Harold L.	V	1926	Forest Hills
MacDonald, Robert E.	III	1927	West Bridgewater
MacKay, Albert T.	III	1926	Boston
MacKeen, Claude E.	I	1927	Boston
MacLean, Eliot B.	II	1925	Lowell
MacLean, Sydney F.	III	1926	Malden
MacMillan, James H.	S	1926	Cambridge
Malkowski, Peter C.	I	1926	Salem
Margolis, Abraham A.	S	1926	Beverly
Maroney, John A.	IV	1926	Jamaica Plain
Masi, Joseph C.	III	1927	Stoneham
Mavraides, William P.	IV	1925	Haverhill
Meikle, Gordon	V	1927	Marblehead
Meldrum, George D.	V	1926	West Roxbury

# NORTHEASTERN UNIVERSITY

NAME	COURSE	YEAR	HOME ADDRESS
Meletti, Frank	III	1927	<i>Somerville</i>
Meserve, Arthur G.	III	1927	<i>Revere</i>
Messer, Arthur E.	V	1927	<i>East Boston</i>
Metcalf, Raymond S.	IV	1927	<i>West Somerville</i>
Mill, John	I	1926	<i>Dedham</i>
Miller, Morris	I	1927	<i>Boston</i>
Mitchell, Charles B.	I	1926	<i>Lawrence</i>
Morrison, John	I	1926	<i>Boston</i>
Morrissey, James R.	I	1926	<i>Boston</i>
Mowat, William C.	III	1927	<i>Winthrop</i>
Mulcahy, Robert W.	III	1927	<i>Boston</i>
Mulkerin, M. Joseph	III	1927	<i>South Boston</i>
Mullen, John J.	V	1927	<i>Brighton</i>
Mumford, Warren H.	S		<i>Boston</i>
Murphy, Arthur E.	III	1927	<i>Boston</i>
Murphy, Francis X.	II	1927	<i>Dorchester</i>
Murphy, Joseph X.	IV	1925	<i>Peabody</i>
Murray, John L.	S	1927	<i>Boston</i>
Mylott, Henry G.	V	1926	<i>Forest Hills</i>
McGovern, Thomas C.	I	1926	<i>Dorchester</i>
McGrath, Joseph W.	II	1926	<i>Chelsea</i>
McLucas, George H.	IV	1927	<i>Charlestown</i>
McLucas, Willard F.	III	1927	<i>Watertown</i>
McMakin, Charles E.	III	1926	<i>Boston</i>
McNally, George E.	III	1927	<i>Boston</i>
Neily, Guy E.	V	1927	<i>Everett</i>
Nelson, Francis	III	1927	<i>Roxbury</i>
Nelson, James H.	V	1926	<i>Melrose</i>
Nelson, Walter A.	II	1925	<i>Dorchester</i>
Nikola, Toivo H.	V	1926	<i>Gloucester</i>
Oberhauser, Fred A.	S	1926	<i>Brighton</i>
O'Brien, John F.	V	1927	<i>Watertown</i>
Ohlson, Emanuel A.	S	1927	<i>Everett</i>
Oliver, Leland W.	IV	1927	<i>Lynn</i>
Ostrer, Herman	I	1927	<i>Dorchester</i>
Otis, David W.	II	1927	<i>Woburn</i>
Parker, Joseph E.	S	1927	<i>Malden</i>
Paris, Sedney	III	1927	<i>Dorchester</i>
Patterson, James F.	S	1926	<i>Dorchester</i>
Pernana, Charles	V	1927	<i>Chelsea</i>
Perlot, George E.	III	1927	<i>Jamaica Plain</i>
Petersen, Alfred J.	II	1927	<i>Raynham</i>
Pierce, Raymond H.	S		<i>Arlington</i>
Piper, Ernest B.	S	1927	<i>Newton Center</i>
Piper, Edward E.	I	1927	<i>Quincy</i>
Plimpton, Rodney F.	III	1927	<i>Somerville</i>
Plugge, George E.	V	1927	<i>Dorchester</i>
Polson, Alver E.	S	1927	<i>Fitchburg</i>
Porter, Harry A.	I	1927	<i>Everett</i>
Powell, Giles B.	V	1925	<i>Dorchester</i>
Powers, John B.	S	1927	<i>Quincy</i>
Preble, Joseph W.	V	1927	<i>Medford</i>
Presser, Harry	III	1927	<i>Roxbury</i>
Presutti, Achille	S	1926	<i>Everett</i>

# EVENING POLYTECHNIC SCHOOL

NAME	COURSE	YEAR	HOME ADDRESS
Purchase, Harry B.	V	1925	Quincy
Rasmus, Stanley	II	1926	West Roxbury
Reidell, Alexander E.	I	1927	Dorchester
Richardson, Harry G.	III	1927	Brockton
Richardson, Warren O.	S	1925	Waltham
Robbins, William F.	I	1927	Boston
Robinson, Ashley Q.	V	1925	Newton
Rogers, George E.	I	1926	East Dedham
Rosen, Nathan	III	1927	Dorchester
Rozbicky, William	S	1926	Chelsea
Russell, Warner H.	I	1926	Haverhill
Ryder, Donald H.	S	1927	Newton
Sampson, Clifford W.	II	1927	Canton
Scott, Carroll	S	1927	Medford
Shaw, Arthur L.	III	1927	Melrose Highlands
Simmonds, Leonard C.	S	1927	Mattapan
Sines, Russell V.	V	1925	Quincy
Smith, Charles E.	III	1925	Medford
Snetsky, Henry	III	1927	Chelsea
Solimando, Michael	V	1925	Boston
Somes, George G.	V	1927	Malden
Spillane, Patrick J.	S		Reading
Stockwell, Lawrence F.	III	1925	Millbury
Stone, Edward C.	III	1927	Everett
Stowe, James	II	1927	Roxbury
Sullivan, Francis J.	III	1926	Cambridge
Sullivan, Thomas B.	V	1927	Melrose
Tarr, Lewis L.	V	1926	Haverhill
Tarr, Melville S.	I	1926	Chelsea
Tebbetts, George F.	III	1927	Arlington Heights
Thomas, Carl H.	II	1927	Medford
Thorpe, Harold C.	III	1927	Arlington
Tomasello, Joseph P.	I	1927	Dorchester
Tracy, Leonard	II	1927	Somerville
Tripp, Frederick L.	I	1926	Taunton
Turnberg, Carl J.	III	1927	Dorchester
Turner, Anthony J., Jr.	II	1927	Swampscott
Ullstrom, David O.	V	1927	Wollaston
Ventola, Alfred E.	III	1925	Hyde Park
Walker, John G.	III	1927	Boston
Wardwell, E. Malcolm	III	1927	Revere
Wasson, Robert Ed.	III	1927	Cambridge
Waterman, Harley R.	III	1927	Boston
Waxman, Joseph G.	S		Danvers
Weber, Henry F.	IV	1925	Jamaica Plain
Wilkinson, Henry D.	S	1926	Boston
Williams, Harold E.	III	1926	Chelsea
Williams, Mortimer G.	III	1927	Marlboro
Wilson, Leonard S.	III	1927	East Boston
Wilson, Robert A.	III	1927	Boston
Wilson, Samuel	III	1927	Everett
Wirt, Donald R.	V	1927	Boston
Wolek, Samuel	V	1927	Revere
Wolfers, Henry L.	III	1926	Roxbury

## NORTHEASTERN UNIVERSITY

NAME	COURSE	YEAR	HOME ADDRESS
Wood, John A.	III	1927	<i>Beverly</i>
Woodberry, Gordon F.	I	1925	<i>Danvers</i>
Woodman, Norman L.	II	1927	<i>Medford</i>
Woodworth, Ernest H.	II	1926	<i>Newton</i>
Woolston, Raymond W.	III	1927	<i>Waban</i>
Young, James E.	III	1925	<i>Cambridge</i>
Zaboly, Joseph	V	1927	<i>Malden</i>
Zwicker, Earle F.	II	1927	<i>Wollaston</i>

---

### NUMERICAL DISTRIBUTION OF STUDENTS BY COURSES

Civil. . . . .	31
Mechanical. . . . .	44
Electrical. . . . .	86
Chemical. . . . .	19
Structural. . . . .	45
Special. . . . .	46
<hr/>	
Total. . . . .	271

### SENIORITY SUMMARY OF STUDENTS

Seniors. . . . .	40
Juniors. . . . .	64
Freshmen. . . . .	154
Unclassified. . . . .	13
<hr/>	
Total. . . . .	271

# **EVENING POLYTECHNIC SCHOOL**

## **RESIDENCE BY CITIES AND TOWNS**

Allston.....	2	Mattapan.....	2
Arlington.....	3	Medford.....	9
Arlington Heights.....	2	Melrose.....	5
Ashland.....	1	Melrose Highlands.....	1
Auburndale.....	1	Millbury.....	1
Beverly.....	2	Natick.....	1
Billerica.....	1	Newton.....	3
Boston.....	47	Newton Center.....	1
Brighton.....	2	Newton Lower Falls.....	1
Brockton.....	3	New York.....	1
Brookline.....	1	Norfolk.....	1
Buenos Aires.....	2	North Billerica.....	1
Cambridge.....	9	Norwood.....	3
Canton.....	1	Peabody.....	3
Canton, Me.....	1	Quincy.....	8
Charlestown.....	1	Raynham.....	1
Chelsea.....	8	Reading.....	1
Danvers.....	3	Revere.....	6
Dedham.....	1	Rockland.....	1
Dorchester.....	20	Roslindale.....	4
East Boston.....	6	Roxbury.....	10
East Dedham.....	1	Salem.....	5
East Foxboro.....	1	Somersworth, N. H.....	1
Everett.....	7	Somerville.....	7
Fitchburg.....	2	South Boston.....	2
Forest Hills.....	2	South Braintree.....	1
Foxboro.....	2	Stoneham.....	2
Gloucester.....	2	Swampscott.....	1
Greenfield.....	1	Taunton.....	1
Haverhill.....	3	Waban.....	1
Hingham.....	1	Waltham.....	2
Hyde Park.....	3	Watertown.....	4
Island Falls, Me.....	1	West Bridgewater.....	1
Jamaica Plain.....	3	West Roxbury.....	3
Lawrence.....	1	West Somerville.....	3
Lowell.....	1	Wilmington.....	1
Lynn.....	5	Winchester.....	1
Malden.....	5	Winthrop.....	3
Marblehead.....	2	Woburn.....	3
Marlboro.....	2	Wollaston.....	3

# NORTHEASTERN UNIVERSITY

## RATES OF TUITION Regular Three-Year Courses

Tuition fee for each year of the regular curriculums is sixty dollars payable as follows:

- One-half upon entering
- One-fourth on Monday of the tenth school week
- One-fourth on Wednesday of the eighteenth school week

The foregoing rates include membership in the Boston Young Men's Christian Association.

### Individual Engineering Subjects

(Arranged alphabetically by subjects)

SUBJECT NUMBER	COURSE	NUMBER OF CLASS HOURS	TUITION
23	Alternating Currents, Lectures.....	28	\$20.00
24	Alternating Currents, Laboratory.....	28	20.00
27*	Analytical Chemistry, Lectures.....	28	20.00
28*	Analytical Chemistry, Laboratory.....	56	40.00
3	Analytical Geometry.....	14	10.00
12	Applied Mechanics.....	14	10.00
38	Architectural Drawing I.....	28	20.00
39	Architectural Drawing II.....	28	20.00
40	Architectural Drawing III.....	28	20.00
4	Calculus.....	14	10.00
41	Concrete Construction.....	14	10.00
21	Direct Currents, Lectures.....	28	20.00
22	Direct Currents, Laboratory.....	28	20.00
18	Engineering Drawing.....	28	20.00
20	Heat Engineering.....	28	20.00
9	Highway Engineering.....	14	10.00
25	Inorganic Chemistry, Lectures.....	28	20.00
26	Inorganic Chemistry, Laboratory.....	28	20.00
19	Machine Design.....	28	20.00
6	Mechanical Drawing.....	28	20.00
1	Mathematics.....	14	10.00
29*	Organic Chemistry, Lectures.....	28	20.00
30*	Organic Chemistry, Laboratory.....	56	40.00
5	Practical Physics.....	28	20.00
10	Railroad Engineering.....	28	20.00
11	Railroad Engineering Drawing.....	28	20.00
13	Strength of Materials I.....	14	10.00
14	Strength of Materials II.....	14	10.00
17	Structural Design.....	28	20.00
15	Structural Drawing.....	28	20.00
7	Surveying.....	28	20.00
16	Theory of Structures.....	28	20.00
8	Topographical Drawing.....	14	10.00
2	Trigonometry.....	14	10.00

The individual rates above are in addition to membership in the Y.M.C.A.

\*Given in alternate years.

# **EVENING POLYTECHNIC SCHOOL**

## **COURSES OF INSTRUCTION**

### **Schedule of Engineering Subjects**

(Arranged alphabetically by subjects)

SUBJECT NUMBER	SUBJECT	EVENINGS	TIME
23	Alternating Currents, Lectures. . . . .	Mon.	7:00—9:00
24	Alternating Currents, Laboratory. . .	Wed.	7:00—9:00
27†	Analytical Chemistry, Lectures. . . . .	Mon.	7:00—9:00
28†	Analytical Chemistry, Laboratory. . .	Wed. and Thurs.	7:00—9:00
3	Analytical Geometry. . . . .	Mon.	7:00—9:00
12	Applied Mechanics. . . . .	Thurs.	7:00—9:00
38	Architectural Drawing I. . . . .	Mon.	7:00—9:00
39	Architectural Drawing II. . . . .	Mon.	7:00—9:00
40	Architectural Drawing III. . . . .	Mon.	7:00—9:00
4*	Calculus. . . . .	Mon.	7:00—9:00
41*	Concrete Construction. . . . .	Mon.	7:00—9:00
21	Direct Currents, Lectures. . . . .	Thurs.	7:00—9:00
22	Direct Currents, Laboratory. . . . .	Wed.	7:00—9:00
18	Engineering Drawing. . . . .	Wed.	7:00—9:00
20	Heat Engineering. . . . .	Thurs.	7:00—9:00
9*	Highway Engineering. . . . .	Thurs.	7:00—9:00
25	Inorganic Chemistry, Lectures. . . . .	Wed.	7:00—9:00
26	Inorganic Chemistry, Laboratory. . .	Thurs.	7:00—9:00
19	Machine Design. . . . .	Wed.	7:00—9:00
6	Mechanical Drawing. . . . .	Wed.	7:00—9:00
1	Mathematics. . . . .	Mon.	7:00—9:00
29†	Organic Chemistry, Lectures. . . . .	Thurs.	7:00—9:00
30†	Organic Chemistry, Laboratory. . . . .	Mon. and Wed.	7:00—9:00
5	Practical Physics. . . . .	Thurs.	7:00—9:00
10	Railroad Engineering. . . . .	Wed.	7:00—9:00
11	Railroad Engineering Drawing. . . . .	Mon.	7:00—9:00
13*	Strength of Materials I. . . . .	Thurs.	7:00—9:00
14	Strength of Materials II. . . . .	Mon.	7:00—9:00
17	Structural Design. . . . .	Tues.	7:00—9:00
15	Structural Drawing. . . . .	Tues.	7:00—9:00
7	Surveying. . . . .	Wed.	7:00—9:00
16	Theory of Structures. . . . .	Thurs.	7:00—9:00
8	Topographical Drawing. . . . .	Thurs.	7:00—9:00
2*	Trigonometry. . . . .	Mon.	7:00—9:00

\*Second Term Courses.

†Given in alternate years.

# NORTHEASTERN UNIVERSITY

## INDEX

	Page
Absences.....	13
Admission.....	10
Advance Standing.....	15
Algebra.....	35
Assistants.....	6
Board of Governors.....	3
Books and Supplies.....	12
Boston Y. M. C. A.....	12
Candidates for Diplomas.....	15
Chemistry.....	32
Civil Engineering.....	29
Civil Engineering Equipment.....	19
Condition Examinations.....	11
Conduct.....	13
Courses of Instruction.....	55
Curriculums of Study.....	28
Deposits, Laboratory.....	11
Diplomas.....	18
Drawing.....	36
Designing and Drafting Rooms.....	25
Electrical Engineering.....	31
Electives.....	16
Equipment.....	19
Executive Council.....	4
Faculty.....	5
Fees.....	11
Graduates.....	18
Graduation.....	15
History of School.....	8
Laboratory, Chemical.....	25
Laboratory, Electrical.....	21
Laboratory, Mechanical.....	20
Laboratory, Physics.....	26
Laboratory, Testing Materials.....	19
Libraries.....	26
Location of School.....	16
Mathematics.....	35
Mechanical Engineering.....	30
Membership Y. M. C. A.....	12
Object of School.....	9
Officers of School.....	4
Positions Held by Graduates.....	18
Practical Physics.....	36
Preparatory Schools.....	17
Refunds.....	11
Register of Students.....	47
Residence.....	15
Scholarship.....	14
Scholastic Reports.....	13
School Year.....	16
Special Courses.....	10
Structural Engineering.....	33



# EVENING POLYTECHNIC SCHOOL

## INDEX (Continued)

	Page
Students, Special.....	14
Students, Status of.....	14
Subjects of Instruction.....	34
Synopsis of Subjects.....	35
Three Year Curriculum.....	9
Transfers.....	13
Trigonometry.....	35
Tuition and Fees.....	11



Date .....

Carl S. Ell, Dean,  
Northeastern University,  
Evening Polytechnic School,  
Boston 17, Mass.

Please furnish me further information on the following  
points:.....

.....

.....

.....

Signed.....

Street.....

City and State.....

\_\_\_\_\_

The following named men are interested in the Evening  
Polytechnic School. Please send them a catalog.

Name .....City.....

Address.....State .....

Name .....City.....

Address.....State .....













# NORTHEASTERN UNIVERSITY

## DAY SCHOOLS

### SCHOOL OF ENGINEERING

Four-year courses in Civil, Mechanical, Electrical, Chemical, and Administrative Engineering, leading to the degrees of Bachelor of Civil, Mechanical, Electrical, Chemical and Administrative Engineering. Conducted in co-operation with engineering firms. Students earn while they learn. Work conducted at Boston.

### SCHOOL OF BUSINESS ADMINISTRATION

Four-year course in Business Administration leading to the degree of Bachelor of Business Administration. Students may specialize in Industrial Management, Marketing, Finance, Accounting, and Sales Management. A two-year course leading to a Junior Certificate. Work conducted at Boston.

## EVENING SCHOOLS

### SCHOOL OF LAW (Co-educational)

Four-year course leading to the degree of Bachelor of Laws. Preparation for bar examinations and practice. High scholastic standards. A much larger percentage of graduates pass bar examinations than of any other evening law school in New England. Work conducted at Boston, and in Divisions at Worcester, Springfield, and Providence.

### SCHOOL OF COMMERCE AND FINANCE (Co-educational)

Four-year courses in Professional Accounting, Marketing, and Business Administration, with specialization in banking, finance, insurance, and other fields, leading to the degrees of Bachelor and Master of Commercial Science. Special two-year courses for those desiring intensive specialization. Work conducted at Boston, and in the Divisions at Worcester, Springfield, Providence, Bridgeport, and New Haven.

## NON-COLLEGIATE SCHOOLS

### EVENING POLYTECHNIC SCHOOL

Three-year courses offered in the Evening Polytechnic School lead to a diploma in Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemistry or Structural Engineering. The work offered in these courses, while not as extensive as that leading to a degree, meets standard requirements. Students are trained for positions of trust and responsibility.

### NORTHEASTERN PREPARATORY SCHOOL

Courses in usual high school subjects leading to a diploma. Three sixteen-week terms each year. It is possible for students to meet college entrance requirements in from three to five years. Work conducted at Boston and in Divisions at Worcester, New Haven, and Providence.

### NORTHEASTERN AUTOMOTIVE SCHOOL

Courses in all phases of the automotive industry with special instruction for owners, salesmen, mechanics, and chauffeurs. Classes are conducted both day and evening

## VOCATIONAL INSTITUTE

A diversified program of short intensive courses in Blueprint Reading, Public Speaking, Practical Trade Mathematics, Mechanical Drawing, Estimating, Civil Service, English for Educated Foreigners, etc.

For further information concerning any of the above schools, address

NORTHEASTERN UNIVERSITY  
316 Huntington Avenue, Boston, Massachusetts



# NORTHEASTERN PREPARATORY SCHOOL

(EVENING SESSIONS)



CO-EDUCATIONAL

TWENTY-NINTH YEAR  
1926 - 1927

BOSTON YOUNG MEN'S CHRISTIAN ASSOCIATION  
316 HUNTINGTON AVENUE  
BOSTON, MASSACHUSETTS

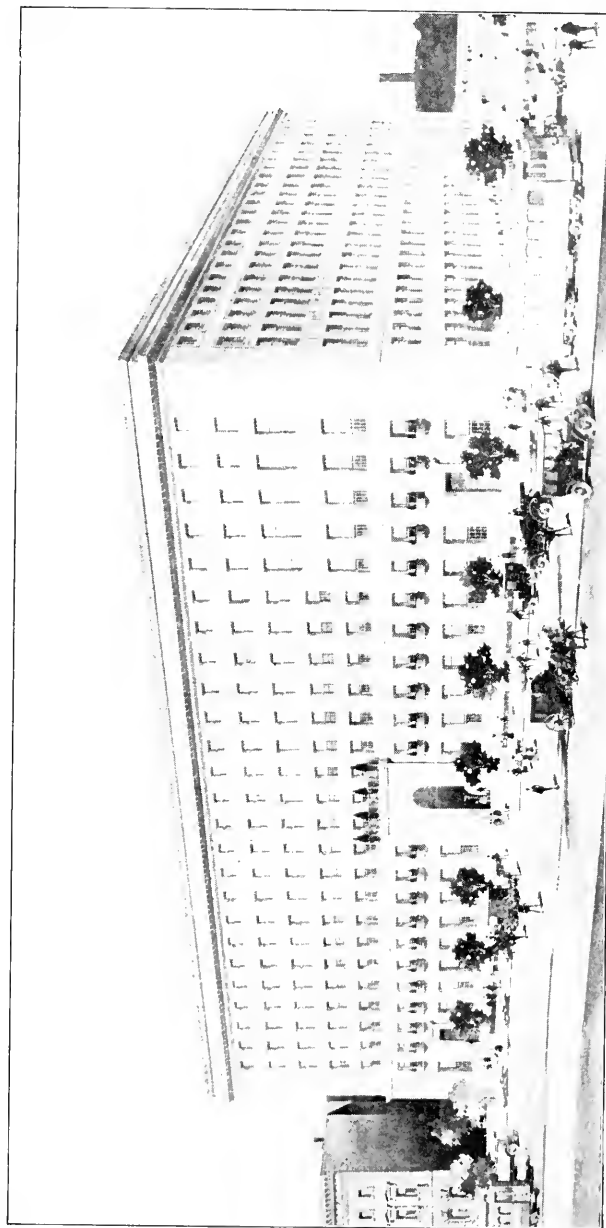
Communications should be addressed to  
**NORTHEASTERN PREPARATORY SCHOOL**  
316 Huntington Avenue  
Boston, Massachusetts

*Telephone Back Bay 4400*

NORTHEASTERN  
PREPARATORY SCHOOL  
1926-1927



EFFECTIVE METHODS OF INSTRUCTION  
HIGH SCHOLASTIC STANDARDS  
EFFICIENT PREPARATION FOR COLLEGE



Y. M. C. A. BUILDING — NORTHEASTERN UNIVERSITY  
(MAIN BUILDING)  
HOME OF NORTHEASTERN PREPARATORY SCHOOL

### SPRING TERM—1926

January 18-22	Registration Week
January 26	Opening of Term
May 10-14	Final Examinations
May 14	Close of Term

### SUMMER TERM—1926

May 17-21	Registration Week
May 25	Opening of Term
September 7-10	Final Examinations
September 10	Close of Term

### FALL TERM—1926

September 13-17	Registration Week
September 21	Opening of Term
December 20-24	Christmas Recess
January 11-14	Final Examinations
January 14	Close of Term

### SPRING TERM—1927

January 17-21	Registration Week
January 25	Opening of Term
May 9-13	Final Examinations
May 13	Close of Term

### SUMMER TERM—1927

May 16-20	Registration Week
May 24	Opening of Term
September 6-9	Final Examinations
September 9	Close of Term

### FALL TERM—1927

September 12-16	Registration Week
September 20	Opening of Term
December 19-23	Christmas Recess
January 10-13	Final Examinations
January 13	Close of Term

# NORTHEASTERN UNIVERSITY

## *Trustees*

ARTHUR STODDARD JOHNSON, *Chairman*

ALBERT HARMON CURTIS, *Vice-Chairman*

GALEN DAVID LIGHT, *Secretary*

WILMAN EDWARD ADAMS	GEORGE CABOT LEE
ALFRED HARLOWE AVERY	HENRY GARDNER LORD
WASHINGTON IRVING BULLARD	ERNEST LOVERING
WILLIAM CONVERSE CHICK	FRANCIS POPE LUCE
WALTON LEE CROCKER	WILLIAM EVERETT MACURDA
LEWIS ABBOTT CROSSETT	MILTON CRAWFORD MAPES
ROBERT GRAY DODGE	EDWARD FULLER MINER
HENRY BRADLEE FENNO	ARTHUR PERRY, JR.
BENJAMIN A. FRANKLIN	THOMAS HASTING RUSSELL
FRANKLIN WILE GANSE	SABIN POND SANGER
BENJAMIN WRIGHT GUEBNSEY	CHARLES PECK SISSON
JOHN HENRY HARWOOD	FRANK PALMER SPEARE
ARTHUR LEE	FRANCIS ROBERT CARNEGIE STEEL

## *Board of Governors*

ALBERT HARMON CURTIS, *Chairman*

GALEN DAVID LIGHT, *Secretary*

WILMAN EDWARD ADAMS	ARTHUR STODDARD JOHNSON
WILLIAM CONVERSE CHICK	WILLIAM EVERETT MACURDA
WALTON LEE CROCKER	FRANK PALMER SPEARE
ROBERT GRAY DODGE	FRANCIS ROBERT CARNEGIE STEEL



# NORTHEASTERN UNIVERSITY

## *General Officers of the University and The Executive Council*

FRANK PALMER SPEARE, LL.B., M.H.  
*President of the University*

GALEN DAVID LIGHT, A.B.  
*Secretary and Comptroller of the University*

CARL STEPHENS ELL, A.B., M.S.  
*Vice-President of the University*

EVERETT AVERY CHURCHILL, A.B., Ed.D.  
*Vice-President of the University*

## *Heads of Schools*

### COLLEGIATE SCHOOLS

SCHOOL OF ENGINEERING  
Carl Stephens Ell, A.B., M.S., *Dean*

SCHOOL OF BUSINESS ADMINISTRATION  
Turner Flowers Garner, A.M., Ed.M., *Dean*

SCHOOL OF LAW  
Everett Avery Churchill, A.B., Ed.D., *Dean*

SCHOOL OF COMMERCE AND FINANCE  
Carl David Smith, B.H., Ed.M., *Dean*

### NON-COLLEGIATE SCHOOLS

EVENING POLYTECHNIC SCHOOL  
Thomas Edward Penard, S.B., *Associate Dean*

NORTHEASTERN PREPARATORY SCHOOL  
James Wallace Lees, A.M., *Principal*

NORTHEASTERN AUTOMOTIVE SCHOOL  
Howard P. LeFavour, *Principal*

DEPARTMENT OF UNIVERSITY EXTENSION  
James Wallace Lees, A.M., *Director*

## *Special Advisors*

FRANK BONNYMAN CAWLEY, B.S.  
*Director of Physical Education*

CLARENCE CARDWELL BEASLEY  
*Director of Religious Education*

NORTHEASTERN  
PREPARATORY SCHOOL  
BOSTON

*Officers of Administration*

EVERETT AVERY CHURCHILL, Ed.D.  
(Harvard University)  
*Vice-President of Northeastern University*

JAMES WALLACE LEES, A.M.  
(Glasgow University)  
*Principal*

*Staff of Instruction*

LAURENCE RUSSELL ATWOOD, A.B.  
(Harvard University)  
*Mathematics*

WALTER ALFRED BALDWIN, A.B.  
(Ohio Wesleyan University)  
*Natural Sciences*

WILLIAM TILDEN BENTLEY, A.B.  
(Harvard University)  
*English*

JESSE RAYMOND DERBY, A.M.  
(Harvard University)  
*English*

GEORGE HENRY GLASHEEN, B.B.A.  
(Boston University)  
*Commercial Subjects*

PERCY EDWARD JONES  
(Sloyd Training School)  
*Mechanical Drawing*

HOWARD DAY KENYON, A.B.  
(Brown University)  
*Mathematics*

THEODORE WOODS NOON, A.M.  
(Yale University)  
*Latin and History*

FRED PARKER HAMILTON PIKE, A.B.  
(Colby College)  
*French*

WILLIAM JACOBS SANDS, A.M.  
(Harvard University)  
*Head of English Department*

CHARLES FREEMAN SEAVERNS  
(Harvard University)  
*Mathematics*

ZENOS CARLETON STAPLES, A.B.  
(Boston University)  
*Head of Commercial Department*

AMBROSE BENTON WARREN, A.B.  
(Colby College)  
*Mathematics*

DANIEL P. A. WILLARD, B.S.  
(New Hampshire University)  
*Social Sciences*

---

WINIFRED BROWN  
*Secretary*

JESSIE LeBARON JENKINS  
*Bookkeeper*

---

CAROLYN ESTHER HENDERSON  
*Assistant Secretary of the University*

J. KENNETH STEVENSON  
*Bursar of the University*

MYRA EDNA WHITE  
*University Librarian*

# THE NORTHEASTERN PREPARATORY SCHOOL

## THE NEED FOR EDUCATION

The complexities of our modern civilization have made a high school education almost a necessity for success and happiness. In the commercial and industrial world specialists exist in all branches, and the man or woman with special training is increasingly in demand. But a man or woman cannot specialise effectively today in an age where commerce and industry are involved without an adequate high school education. The development of extensive means of communication, such as the telephone, the telegraph, the railroads and steamship lines has annihilated distance, and information from distant parts of the world, once considered merely a matter of interest to the well educated man, has now become a matter of signal importance to all.

America with its high ideals, with its truly wonderful educational facilities, will have little patience with the man who will not exert himself to secure the benefits of education. To put the matter in another way, the life of a democracy depends upon an enlightened electorate.

Apart from the immediate financial benefit to be derived from securing a high school education, there is the far greater and much more important happiness resulting from an increased knowledge of art and literature, together with a knowledge of useful means of employing leisure time.

Lord Grey of Fallodon, a great British statesman, states that there are four essentials for a complete and happy life. These are:

1. A model standard by which to guide our actions;
2. A satisfactory home life in the form of good relations with family or friends;
3. Some form of work which justifies our existence to our country and makes us good citizens;
4. Some degree of leisure time and the use of it in some way that makes us happy.

And a high school education is indispensable in bringing man appreciably nearer to the goal defined above.

## THE HISTORY OF THE SCHOOL

Northeastern Preparatory School, formerly called the Evening Preparatory School, was founded in 1897, to meet the demand for instruction by men employed during the day. Since then the School has grown steadily, until today it offers work of the same standard as that maintained by day secondary schools. The school has prepared men for Harvard, Yale, Massachusetts Institute of Technology, Brown, Boston University, Tufts, Dartmouth, Northeastern, and other colleges. Some of these men have obtained their entire preparation here; others have completed preparation begun elsewhere.

The enrolment has increased from fewer than fifty students to more than one thousand. To keep pace with this growth, the school in its development has more than kept pace with its growth in size; there is a larger and more efficient teaching force; to do more thorough and intensive work the courses of study have been carefully outlined, and the methods of instruction and general standards have been and are being constantly improved.

## AIM OF THE SCHOOL

The aim of Northeastern Preparatory School is to prepare young men and women of earnest purpose for colleges, scientific schools, or advanced schools of Northeastern University, or to help them improve their positions in the business world and advance to a larger and fuller personal growth mentally, morally, intellectually and spiritually.

## STANDARDS OF THE SCHOOL

As has been indicated, the Northeastern Preparatory School is a recognized school of high standing, operated in accordance with the following standards:

- a A curriculum offering the usual high school subjects and in addition work of the eighth grade.
- b Courses carefully arranged to insure that all branches of a subject are thoroughly studied.
- c The issuing of printed outlines to insure a steady rate of progress and to assist students who through forces of circumstances may occasionally be absent from certain class sessions.
- d The equipping of students, not only with certain knowledge and skills which will enable them to receive

larger financial rewards for the labor expended, but a the cultivation of a taste for the better things in life.

- e The selection of the most competent and experienced faculty available.

## METHOD OF INSTRUCTION

Instruction in the main is given by the lecture method. This plan is adopted because of the intensity of the courses. Students are required to purchase outlines of their courses. The outlines indicate the extent of the ground to be covered and the best methods of covering it. Frequent short tests are given and students are guided by the results of these. To a certain extent depending upon the course and the time available, written work is required of all students. This work must be submitted on the day appointed. The best available text books are used on all courses where books are needed.

## FACULTY

The faculty of Northeastern Preparatory School is made up of graduates of the leading universities, men of culture and high ideals, who have had excellent training and wide experience in the subjects which they teach. All of them have served with this institution for many years and have a personal interest in its work and its success. They are men who know and are sympathetic with the aims and purposes of the students. The faculty compares favorably with that of the best day preparatory schools.

## THE STUDENT BODY

The student body consists of men and women of earnest purpose who have recognized the value of education, but who by force of circumstances, have been unable to complete a high school course. Many are attending because they feel the need of increasing their vocational opportunities. Realizing that they can secure these benefits by evening study, they bring to bear on their work a real desire for success. Almost all the students are engaged in work during the day, and nearly every occupation has its representative in the student body. Their ages range from 16 to 40.

## ALUMNI

The School numbers among its alumni, graduates and students of nearly all the leading New England colleges. It includes many successful men in almost every representative occupation who have taken the work of the School but who have not, subsequently, gone on to college, having chosen to remain in business.

# ADMISSION REQUIREMENTS

## REGULAR STUDENTS

Any young man or woman of good moral character, regardless of occupation or creed, who has completed at least six grades of a grammar school course, or the equivalent, may enroll in the School.

Courses adapted to the needs and education of such applicants are offered each term. It is not advisable, however, for one younger than fifteen years of age to register, for the courses are adapted to those who are more mature and are physically able to work during the day and to study at night.

## SPECIAL STUDENTS

Some of our students do not expect to enter higher institutions of learning. To these the School offers special combinations of subjects which will benefit them in the work in which they are engaged during the day.

## LATE REGISTRATION

Students should avoid late registration. It is of fundamental importance that they be present at the first class sessions if they are to be most successful in their studies for the year. Those who find it necessary to register late may be permitted to enter the School provided they have not lost so much work as to render impossible for them to proceed with the courses.

## TUITION AND OTHER FEES

### TUITION

The rates are made for each subject, for a single term only; hence students are charged exactly in proportion to the instruction.

Standard academic courses, with the exception of Physics and Chemistry, meeting two hours per week: \$15 for the first course, and \$13 for each in addition thereto. For payment in full upon enrolment, the rate is \$13.50 for the first course, and \$1.50 for each additional course. The rate of Chemistry and Physics courses outside of the laboratory and breakage fees is \$10; on a cash basis, \$18.

The laboratory fee for Chemistry or Physics is \$5 for each course. A deposit of \$5 also is required for Chemistry to cover breakage, the unused portion to be returned at the close of the course.

The fee for a special examination regularly scheduled is for one scheduled irregularly \$5.

The diploma fee is \$3.

For rates for special classes and tutoring, apply at the off

### SPECIAL SUMMER COURSES

Several intensive courses carrying a full unit credit each given each summer in Boston, particularly for the benefit students in college or preparing for college who have admission requirements to work off.

The rate for these full unit courses is \$28 by instalments and \$25 on a cash basis.

For those who do not pay on a cash basis the *first half* tuition is due on entrance. The second half is due November March 15, or July 15, according to school term.

### WITHDRAWALS AND REFUNDS

Students who are forced to withdraw from a course or from the School are requested to notify the School office in writing to the effect that they are withdrawing and to give their reasons for doing so. This notification should be given promptly.

As the School assumes the obligation of carrying the student throughout the year when the student registers, and as the University provides the instruction and accommodations on a yearly basis, the Executive Council of the University has ruled as follows:

A. Applications for refunds must be presented within six days after withdrawal from the School.

B. Credits and refunds will be granted only as stated below.

1. Cash refunds may be granted in cases where students are compelled to withdraw on account of personal illness. The application must be accompanied by a satisfactory certificate from a physician.
2. In case a student is regularly employed during the day and is sent out of the city permanently by his employer or is compelled to change his working hours so as to prevent his continuance in the School, a refund may be granted provided the application is accompanied by a satisfactory statement from the firm.
3. Tuition not refunded or used may be applied upon subsequent courses pursued in the School, providing such courses are taken within two years from the date of withdrawal of the student.
4. In the event of a student's withdrawal from one or more courses in a term, he is charged a withdrawal fee of plus a *pro rata* charge for sessions he has attended.



## REQUIREMENTS FOR GRADUATION

### DIPLOMAS

The diploma is granted upon completion of fifteen units, of which at least four must have been earned in the Northeastern Preparatory School. Candidates are expected to complete four units of English, which count as three units toward the diploma college-entrance requirements.

A unit of work, as counted by the College Entrance Examination Board, is the amount covered in a single standard subject during a year's work in a standard day high school, the equivalent of which is covered by this School in two terms of seven weeks each.

The courses described in this catalogue form the entire offering of the School. Most of these are scheduled every term; some in alternate terms or every third term. An announcement is made in advance of each registration period of the courses for the following term, together with the days and hours when each will meet. *Any secondary school subject, however, will be offered if ten or more students wish to take it, even if it does not appear in the announcements or in this catalogue.*

### CERTIFICATES

A suitable certificate is issued after a student has completed a course with a satisfactory grade. Students are encouraged to obtain as many of these as possible. Each one denotes a definite accomplishment in a particular subject.

# SUGGESTED COURSES OF STUDY

## CLASSICAL COURSE

Candidates for Harvard and for classical courses in other colleges should select the following:

### REQUIRED UNITS

(13 units)

English.....	3*	History.....	1
Latin.....	3	Algebra.....	2
Modern Language.....	2	Plane Geometry.....	1
Science.....	1		

### ELECTIVE UNITS

(Choose 2 units)

French.....	3	Physics.....	1
German.....	3	Chemistry.....	1
History.....	2	Solid Geometry.....	½
Government.....	½	Trigonometry.....	½

(A total of 15 units is required for Harvard)

## SCIENTIFIC COURSE

Candidates for the Massachusetts Institute of Technology and other scientific and technical schools should select the following:

### REQUIRED UNITS

(13 units)

English.....	3*	Solid Geometry.....	½
French or German.....	3	Trigonometry.....	½
History.....	1	Physics.....	1
Algebra.....	2	Chemistry.....	1
Plane Geometry.....	1		

### ELECTIVE UNITS

(Choose 1 unit)

Elementary French.....	2	Spanish.....	2
Advanced French.....	1	Mechanical Drawing.....	1
Elementary German.....	2	Latin.....	2
Advanced German.....	1	History (additional).....	1

(A total of 13½ units is required for the Massachusetts Institute of Technology)

\*Four courses in English are regularly computed as *three* units for college entrance.

## GENERAL PREPARATORY COURSE

The number of units required for admission and also the freedom of choice with the several colleges. The principal will be glad to advise students regarding their selection. The following is suggested as typical:

### REQUIRED UNITS

(9 or 10 units)

English.....	3*	Science .....	1
Foreign Language.....	2	Algebra.....	1 or 2
History.....	1	Plane Geometry .....	1

### ELECTIVE UNITS

(Choose 5 or 6 units)

Ancient History .....	1	Chemistry .....	1
Bookkeeping .....	1	Commercial Arithmetic ...	$\frac{1}{2}$
European History.....	1	Commerce and Industry ..	$\frac{1}{2}$
French .....	2 or 3	Mechanical Drawing ....	1
German .....	2 or 3	Physics.....	1
Government .....	$\frac{1}{2}$ or 1	Solid Geometry.....	$\frac{1}{2}$
Latin.....	2 or 1	Spanish .....	2 or 3
U. S. History.....	1	Trigonometry .....	$\frac{1}{2}$
Economics.....	$\frac{1}{2}$ or 1		

(A total of 15 units is the usual requirement)

# NORTHEASTERN UNIVERSITY

## SCHOOL OF LAW (Evening Sessions)

### REQUIRED UNITS

English.....3\*

### RECOMMENDED UNITS

Economics .....	$\frac{1}{2}$ or 1	History.....	1 to 3
Government .....	$\frac{1}{2}$ or 1	Latin.....	1 or 2

### ELECTIVE UNITS

Algebra.....	1 or 2	Commercial Arithmetic...	$\frac{1}{2}$
Plane Geometry .....	1	Commerce and Industry ..	$\frac{1}{2}$
Bookkeeping .....	1	Mechanical Drawing .....	1
French .....	2 or 3	Physics.....	1
German .....	2 or 3	Solid Geometry.....	$\frac{1}{2}$
Chemistry .....	1	Spanish.....	2 or 3
Trigonometry .....		$\frac{1}{2}$	

(A total of 15 units is required)

## SCHOOL OF COMMERCE AND FINANCE (Evening Sessions)

### REQUIRED UNITS

English.....3\*

### RECOMMENDED UNITS

Commercial Arithmetic ..	$\frac{1}{2}$	Economics .....	1
Algebra .....	1	Government .....	1
Plane Geometry .....	1	U. S. History .....	1

### ELECTIVE UNITS

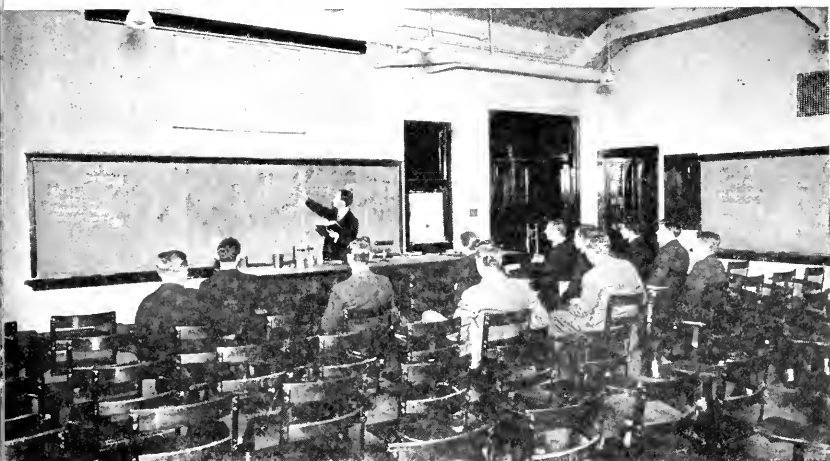
Latin.....	2 or 1	Chemistry .....	1
Ancient History .....	1	Commerce and Industry ..	$\frac{1}{2}$
Bookkeeping .....	1	Mechanical Drawing .....	1
European History.....	1	Physics.....	1
French .....	2 or 3	Solid Geometry.....	$\frac{1}{2}$
German .....	2 or 3	Spanish.....	2 or 3
Trigonometry .....		$\frac{1}{2}$	

(A total of 15 units is required)

\*Four courses in English are regularly computed as *three* units for col-  
entrance.



PHYSICS LABORATORY



ONE OF THE CLASSROOMS

# SCHOOL OF BUSINESS ADMINISTRATION

## (Day Sessions)

### REQUIRED UNITS

English.....3\*

### RECOMMENDED UNITS

Commercial Arithmetic... $\frac{1}{2}$	Government.....1
Algebra.....1	U. S. History.....1
Plane Geometry.....1	

### ELECTIVE UNITS

Economics.....1	Chemistry.....1
Latin.....2 or 1	Commerce and Industry... $\frac{1}{2}$
Ancient History.....1	Mechanical Drawing.....1
Bookkeeping.....1	Physics.....1
European History.....1	Solid Geometry.....1
French.....2 or 3	Spanish.....2 or 3
German.....2 or 3	Trigonometry..... $\frac{1}{2}$

(A total of 15 units is required)

# SCHOOL OF ENGINEERING

(Day Sessions—Co-operative and Full-time Plans)

### REQUIRED UNITS

(6 units)

English.....3\*

Algebra.....1

Geometry.....1

Physics.....1

### ELECTIVE UNITS

(Choose a minimum of 9 units)

Commercial Arithmetic... $\frac{1}{2}$	German.....2 or 3
Economics.....1	Chemistry.....1
Government.....1	Commerce and Industry... $\frac{1}{2}$
U. S. History.....1	Mechanical Drawing.....1
Latin.....2 or 1	Solid Geometry..... $\frac{1}{2}$
Ancient History.....1	Spanish.....2 or 3
European History.....1	Trigonometry..... $\frac{1}{2}$
French.....2 or 3	

(A total of 15 units is required)

\*Four courses in English are regularly computed as *three* units for college entrance.

## EVENING POLYTECHNIC SCHOOL

Candidates for this school are advised to complete the high-school course, including in it English, Algebra, Geometry, Science and Drafting.

Men of suitable age and experience, however, will be admitted with the following:

### REQUIRED UNITS

(3 units)

English .....	1	Plane Geometry .....	1
Algebra .....	1		

### RECOMMENDED UNITS

Algebra, Intermediate ...	1	Mechanical Drawing $\frac{1}{2}$ or 1	
---------------------------	---	---------------------------------------	--

## SPECIAL COURSES

The Northeastern Preparatory School in co-operation with the Department of University Extension offers in addition to its regular college-preparatory courses several special courses which are as complete in themselves as those that require a longer time for completion. These special programs have been arranged with the idea in mind that they will help men in a very definite way to prepare themselves to occupy a good position in a chosen field. The courses follow:

**COURSE T-1.** This is a course especially arranged for men engaged in the trades who wish to improve their knowledge of elementary English and Mathematics, and who, in addition, wish to obtain a more complete understanding of Blueprint Reading and Mechanical Drawing. The entire course may be covered during two terms of sixteen weeks each. The subjects are:

Elementary English	Blueprint Reading
Applied Mathematics	Mechanical Drawing

**COURSE T-2.** This course is somewhat similar to Course T-1 but more advanced in the subject matter presented. When one has finished he should be qualified to occupy in a satisfactory manner a position as a draftsman or a position of equal grade in similar work. The subjects pursued are:

English	Blueprint Reading
Algebra	Mechanical Drawing
Plane Geometry	Estimating
Applied Mathematics	Machine Drawing

**COURSE T-3.** This course is of special benefit to those who wish to prepare themselves to become surveyors. The subjects offered are:

English	Mechanical Drawing
Algebra	*Topographical Drawing
Plane Geometry	*Surveying
Trigonometry	

\*Offered in the Northeastern Polytechnic School.

**COURSE T-4.** This course is of a business nature and has for its aim giving one sufficient instruction to occupy a position as an office assistant. The course consists of the following subjects:

Business English	Commercial Arithmetic
	Bookkeeping

Other special programs may be arranged to meet any particular need. Students who feel that they need instruction not covered by the above courses should consult the principal of the school.



## OUTLINES OF COURSES

*Note:* The courses of the school are arranged in "units."

A unit is ordinarily the amount of work covered in a single subject taken four or five times a week for a year in a standard day high school.

In this school a unit may be covered in each subject in two terms of sixteen weeks each. For instance, History 2A and History 2B, each being a term's work, constitute a unit in History. Each is equivalent to a half-year's work in high school. This holds for all subjects except English.

Students carry one, two or sometimes three subjects at a time. Fifteen units, properly selected (see pages 13-15), are required for graduation.

### ENGLISH

The English courses are especially planned to develop broad, sound habits of thought, alert intelligence, and direct and clear expression. The instruction in literature and composition is conducted according to college methods adapted to preparatory school standards; the lecture system is employed in reference to recitation; and the mature mind accordingly finds ample material for thoughtful and progressive effort.

Among the chief topics treated are the practical elements of composition and rhetoric, the nature of style, the origin and development of the chief literary forms, and the appreciation of English classics. Fundamental principles of thoughts and expression are emphasized throughout the course; thoroughness is insisted on. Technicalities are avoided; enthusiasm, understanding, and persistence are fostered.

**ENGLISH L-1.** This course is for those students who wish to devote more time to the study of the subjects embraced by English A. It includes the first half of the work offered in English A.

**ENGLISH L-2.** This course embraces the second half of English A.

**ENGLISH A.** This course is for those who need drill in elementary spelling, punctuation, grammar, letter-writing, and oral reading. The aim is to prepare the student for the first-year course in high school.

**ENGLISH 1-A, 1-B.** This course is introductory to the essentials of composition, and emphasizes the practical problems in grammar, sentence structure, and clear expression. Prose classics are read both to give training in thoughtful and appreciative reading and to serve as models for the composition work. Much attention is paid to spelling.

ENGLISH 2-A, 2-B. This is designed to aid the student in the study and appreciation of literature in its relation to other literary, or historical, events. Course 2-A deals chronologically with British literature. Course 2-B takes up the literary masterpieces written by Americans. Much attention is paid to the best expressions of contemporary thought.

ENGLISH 3-A, 3-B. This is a course in advanced composition, the purpose of which is to enable the student to express himself effectively. It insists upon clear, forceful presentation, accurate and coherent thinking, and the careful study of stimulating models. The principles of punctuation, grammar, and letter-writing are briefly reviewed. This course may follow 1-AB.

ENGLISH 4-A, 4-B. The purpose of this course is to aid the student in the acquiring of that appreciation of the masterpiece of literature which the college entrance examinations demand. This work is supplemented by lectures and carefully revised written reports.

ENGLISH FOR FOREIGNERS (ENGLISH F). This is a practice course in speaking, reading, and writing, designed for foreign-born men of education who already possess some knowledge of English but who wish for greater proficiency and accuracy.

## LATIN

The courses in Latin are such as to fulfill the requirements of college entrance examinations. In the first year, they aim to give a foundation in grammar which will make possible and profitable the study of Latin texts in the other years.

LATIN 1-A, 1-B. This course embraces the elementary grammar, with easy translations and drills on inflections.

LATIN 2-A, 2-B. Course 2 requires translations from Caesar with frequent assignments in Latin composition. The latter involves a review of constructions and forms, and application of the rules of syntax.

LATIN 3-A, 3-B. Cicero's orations against Cataline, for the Manilian Law, and for Archias are read. Grammar review and Latin compositions also are included.

LATIN 4-A, 4-B. This course requires translations from Virgil's "Aeneid," and advanced Latin composition.

## FRENCH

The courses in French are planned with the purpose of giving to students (1) an appreciative comprehension of French, both as literature and as a spoken language; and (2) a sufficient knowledge to fit them for advanced work in higher schools. The essentials of the grammar are mastered by continued drill and constant application. The attainment of good pronunciation receives careful attention, and from the beginning the student is trained to understand spoken French.

FRENCH 1-A, 1-B. The "New Chardenal French Grammar" is used, with selected readings. Emphasis is placed on pronunciation and the acquiring of a vocabulary.

FRENCH 2-A, 2-B. This course continues the study of the "New Chardenal French Grammar." Special composition work and selected readings also are required. Students who complete both French 1 and 2 are prepared to take college entrance examinations in Elementary French.

FRENCH 3-A, 3-B. The "New Chardenal French Grammar" is reviewed. Lamartine's "Revolutions Francaises" and selections from Maupassant, Th. de Banville, Meilhac et Halevy, and others are read. Koren's "French Composition" affords practice in English-French translation.

FRENCH 4-A, 4-B. This course embraces classic plays, and selections from Balzac and others; Victor Hugo's "Hernani"; Moliere's "Cyrano de Bergerac"; and critical essays on France, its people and its literature.

## SPANISH

SPANISH 1-A, 1-B. This elementary course covers the grammar, with correct pronunciation, ear-training, and conversation.

SPANISH 2-A, 2-B. The study of grammar, and practice in conversation and composition are required.

## GERMAN

The aim of the first year is to enable the student to acquire a correct pronunciation, to gain a complete mastery of fundamental grammatical forms and principles, and to get a vocabulary that will make it possible to read simple German texts intelligently.

In the second year the inflected forms and the principles of German grammar are thoroughly reviewed, the working vocabulary is constantly enlarged, and exercises, both in composition and conversation, are continued.

GERMAN 1-A, 1-B. Voss' "Essentials of German," and Goethe's "Märchen und Erzählungen" are used. Emphasis is placed on pronunciation and the acquiring of a vocabulary.

GERMAN 2-A, 2-B. The study of grammar is continued. Special attention is given to syntax, and selected readings are required. Students who complete German 1 and 2 are prepared to take college entrance examinations in Elementary German.

GERMAN 3-A, 3-B. This course embraces Becker's "Deutsch für Ausländer"; Wildenbruch's "Das edle Blut"; Baumbach's "Die Nonna"; von Lilencron's "Anno 1870"; Keller's "Kleid machen Leute"; Heine's "Die Harzreise"; Meyer's "Das Amlett"; and German composition.

GERMAN 4-A, 4-B. Schiller's "Wilhelm Tell" or "Die Jungfrau von Orleans"; Lessing's "Minna von Barnhelm"; Goethe's "Egmont" and "Hermann und Dorothea"; and critical essays on Germany, its people and its literature, are read.

## HISTORY, GOVERNMENT, ECONOMICS

The aim of the department is to give a broad knowledge of vital conditions in the growth of the leading countries of the world. This includes the study not only of important historical facts, but more especially of the progress of development in government, society, business, religion, and education. The past is studied that the present may be better understood.

HISTORY 2-A, 2-B. A careful and comprehensive study is made of United States History, including not only the story of earlier times but also an analysis of events from the Civil War down to and including our own times. Special reference is made to the constitutional, political and economic development of the Nation.

HISTORY 3-A, 3-B. This is a course in European History embodying a comprehensive survey of medieval and modern Europe, including England. A study is made of the development of the great races of today, particularly the Anglo-Saxon, Latin, Teutonic, and Slavonic, and the tendencies that resulted in the World War.

HISTORY 4-A, 4-B. This is a course in Ancient History. The first division is devoted to the history of Greece; the second to that of Rome. The course emphasizes the characteristic elements of these civilizations and the contributions which they made to modern civilization.

GOVERNMENT 1-A. The forms of our local and state governments are taken up first. These are followed by a careful analysis of the Constitution of the United States, showing the relationship of the executive, legislative, and judicial branches of our National Government.

GOVERNMENT 1-B. This course begins with a study of the form and operation of the principal European governments. Comparison is later made between these governments and that of the United States.

ECONOMICS 1-A, 1-B. This course comprises the outline of trade development as contained in economic history; and also a study of economic theory, including prices, values, money, banking and exchange, credit, international trade, transportation, labor and capital, public ownership, wages and profits, and kindred subjects. The field of public finance is also covered briefly, but thoroughly.

## MATHEMATICS

The purpose of the courses is two-fold: (1) to make the student acquainted with such mathematical methods as are most likely to be useful in the study of other subjects and particularly in practical affairs; and (2) to give him a thorough training in such fundamental branches as shall furnish a sufficient basis for advanced mathematical studies.

ARITHMETIC A. This is an elementary course on the four fundamental operations, factors, and simple processes in preparation for Arithmetic 1-A.

ARITHMETIC 1-A. For a description, see Commercial Subjects.

ALGEBRA 1-A, 1-B. The essential operations of algebra to quadratics are covered. The emphasis is on the fundamental principles.

ALGEBRA 2-A. This course completes the college entrance requirements. It is designed for students who have acquired the fundamental principles.

GEOMETRY 1-A, 1-B. The five books of Plane Geometry are studied. The numerous original exercises stimulate the power to reason clearly and to derive logical proofs. Special attention is given to those who expect to take college entrance examinations.

GEOMETRY 2-A. This course comprises the standard theorems in solid and spherical geometry. Stress is laid upon numerical exercises involving mensuration of solid figures. The work is designed primarily for those who are preparing for college.

**TRIGONOMETRY 1-A.** This course is intended for those who wish to offer trigonometry for college entrance, or for those who intend to take up engineering.

**APPLIED MATHEMATICS.** This course teaches one to apply the common mathematical truths to practical problems. A valuable course for men engaged in the trades and also for one wishing a general review of elementary mathematical truths.

## DRAWING

**MECHANICAL DRAWING 1-A, 1-B.** The fundamental principles such as lettering, geometrical problems, orthographic projections, and development and intersection of surfaces, are covered. Much attention is given to the proper use of the various drawing instruments. A credit toward college entrance will be granted upon the completion of plates 1 to 41, inclusive, and plates 43, 49, 51, and 53, in Sampson's "Mechanical Drawing and Practical Drafting." All the work is individual and admits of progress according to the student's ability.

## SCIENCE

**PHYSICS 1-A, 1-B.** This course meets the college entrance requirements. Mechanics, heat, magnetism and electricity, sound and light are taken up. The course aims to encourage in the student a habit of observation, and to develop his ability to think intelligently about simple physical facts, many of which are observed in everyday life.

**CHEMISTRY 1-A, 1-B.** The general purpose of this course is similar to that of Physics I. The work is divided between lecture-room discussion and demonstration of the fundamental principles and facts of inorganic chemistry, on the one hand, and, on the other, experimental work in the laboratory by the students individually. This latter is closely supervised, and the student is required to do his work neatly, observe results carefully, and endeavor to reason from these results to legitimate conclusions. He must also keep systematic records of the work, as directed. At least forty-five experiments are performed.

**COMMERCE AND INDUSTRY.** A study is made of the various countries in relation to their commercial intercourse. The student is familiarized with the principal waterways, cities, products, imports, exports, etc.

## COMMERCIAL SUBJECTS

**ARITHMETIC 1-A.** The aim of the course is to secure a combination of speed and accuracy in the essential arithmetical calculations used in business. A thorough review of elementary principles is given, followed by a detailed study of fractions, decimals, aliquot parts, percentage, interest, bank discount, commission, payrolls, insurance, brokerage, taxes, estimating grain and lumber supplies, and other practical phases.

**BOOKKEEPING 1-A.** This is a course intended to train the student in the art of properly recording the simpler transactions of business according to the elementary principles of accountancy. The books used are the cash book, the purchases book, the sales book, the journal, and the ledger. After the first month the check book and bank book are introduced. The trading and profit and loss statements and statements of resources and liabilities are made as simple as possible and instructions are given with great fullness and detail.

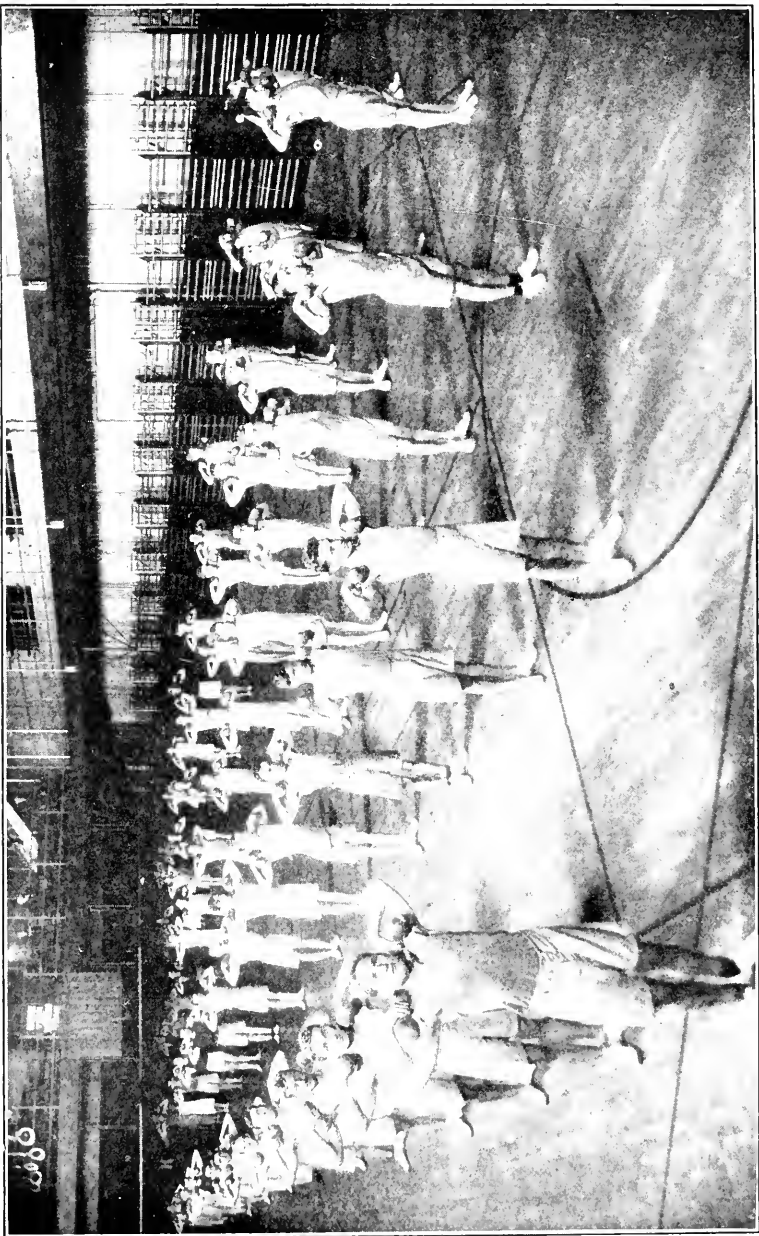
**BOOKKEEPING 1-B.** This course trains the student to keep a set of books illustrating a wholesale business. At the beginning the firm consists of two persons; later additional partners are admitted. The business of a wholesale grocery house is represented, but the methods and practices set forth will apply to a wholesale or jobbing business in almost any other line, such as dry goods, notions, clothing, boots and shoes, hats and caps, men's furnishings, millinery, etc. The purpose of the course is to qualify the student thoroughly to keep any set of commercial accounts.

**COMMERCIAL LAW 1-A.** A course in the elements of business law, covering such subjects as contracts, agency, sales, bailment, negotiable instruments, partnerships and corporations. The intent of the course is only to help one to keep out of itfalls, and to know when professional services are necessary.

**PUBLIC SPEAKING.** This class meets one night each week. Its purpose is to teach men how to speak effectively either when in conversation with others or in public. Students taking this course learn to talk coherently and convincingly.

### NOTE

The courses described in the foregoing form the entire curriculum of the school. Most of these courses are offered every term; a few in alternate terms or every third term. An announcement is made in advance of each registration period of the courses scheduled for the following term, together with the day and hour at which each class will meet. Classes in Biology, Spanish, Italian, in fact any secondary school subject, will be offered if ten or more students register for it, even if it is not listed on the announcement or in this catalogue.





## GENERAL INFORMATION

### SCHOOL YEAR

The school year is divided into three terms of sixteen weeks each. The fall term includes the period from September to January, the spring term from January to May, and the summer term from May to September.

The work is so conducted that in any two terms the student may complete a full year of high school work in any subject. By attending full calendar years, a four-year high school course can be completed in from three to five years, according to the number of subjects studied by the student.

Beginning classes are offered each term in a variety of subjects. It is possible for a student to enter the School at the beginning of any term, and to select courses suited to his individual advancement. Several half-courses are also offered each term.

### SESSIONS

The school sessions are held on week-day evenings from 7 to 10 o'clock. There are no classes Saturday. A student's schedule may include 1, 2, or 3 evenings a week, according to the subjects he selects. *As a rule, subjects are scheduled for two evenings a week.* It has been found that because the students are mature, and in earnest, they can do the work of a course in fewer recitation periods than are customary in a day high school; therefore, classroom work is concentrated and intensive. It must be remembered, however, that the major part of the work is done outside the classroom.

### ATTENDANCE REQUIREMENTS

*Attendance upon at least 75 per cent of the classes is required for admission to the examinations.*

### EXAMINATIONS

Examinations are held throughout the term at the discretion of the instructors. Final examinations are required upon the completion of all courses. These examinations are modeled after college examinations. The following system of grading is used:

A Excellent	C Fair	E Conditioned
B Good	D Pass	F Failure

The passing mark is D—60 per cent.

A student marked E (conditioned) may enroll in the advanced course in the same subject immediately following, but upon condition that he remove his deficiency by special examination early in the next term. A fee of \$3 is required for each such examination regularly scheduled.

## LIBRARIES

The School has excellent facilities for study in the University library and reading room, which is equipped with dictionaries, encyclopedias, and special texts for carrying on the work of the School effectively.

Students have the privilege of taking books from the Boston Public Library and of using the library for general reference and reading.

## VOCATIONAL AND EDUCATIONAL GUIDANCE

It is the intent of the School to advise carefully all its students, so that the subjects selected for study shall be of most benefit to the student, in relation to his ultimate vocational aim, or to his more immediate educational purpose. The School realizes that some men come to it to get help in bettering their business positions, others to broaden their general education and still others to be directed to a college or technical school. To each is given advice which will best meet his educational need.

## CREDIT FROM OTHER SCHOOLS

Students who have begun their high school work in other approved institutions may obtain credit for that work toward the diploma of this School by presenting a certified transcript of record from the school previously attended.

## ADMISSION TO COLLEGE

A few colleges will admit students on the diploma from this School. A large number of colleges will accept a special certificate from this School. A few colleges (notably Harvard, Yale and the Massachusetts Institute of Technology) require certain examinations from all candidates, and this School prepares for those examinations.

To obtain a certificate, a grade of 80 per cent is required in each subject.

## TEXT BOOKS

Students buy their own books and printed outlines of courses. Students taking Mechanical Drawing must furnish their own instruments and supplies. The book store keeps on hand all books and supplies used in the School.

## TUTORING

The School office is in touch with capable teachers who will give individual instruction to men who desire private lessons.

either for rapid emergency work or in any courses which are not on our schedule. Arrangements are made through the office.

## SCHOOL GATHERINGS

At intervals, the students of the School meet in a general assembly. Opportunity is given to hear an address by some business or professional man and to meet other members of the School. The annual "Get-together" is held in March.

## THE Y. M. C. A.

The Northeastern Preparatory School is conducted by the Young Men's Christian Association and, though non-sectarian, is thoroughly Christian in character. Students are encouraged to participate in the activities of the Association, so far as is consistent with their own particular religious beliefs. However, a student should not hesitate about entering the School because of religious faith, no attempt being made to influence one to participate in activities which are contrary to the tenets of his particular religion.

## RELIGIOUS ACTIVITIES

Students are cordially welcomed and urged to participate in all the activities of the Y. M. C. A.—it is hoped that they will feel free to do so to the largest extent possible. In connection with the various departments of each Association, an ample social and religious program is provided, so that all men should be able to find that type of activity in which they are most interested. Full information may be received on inquiry.

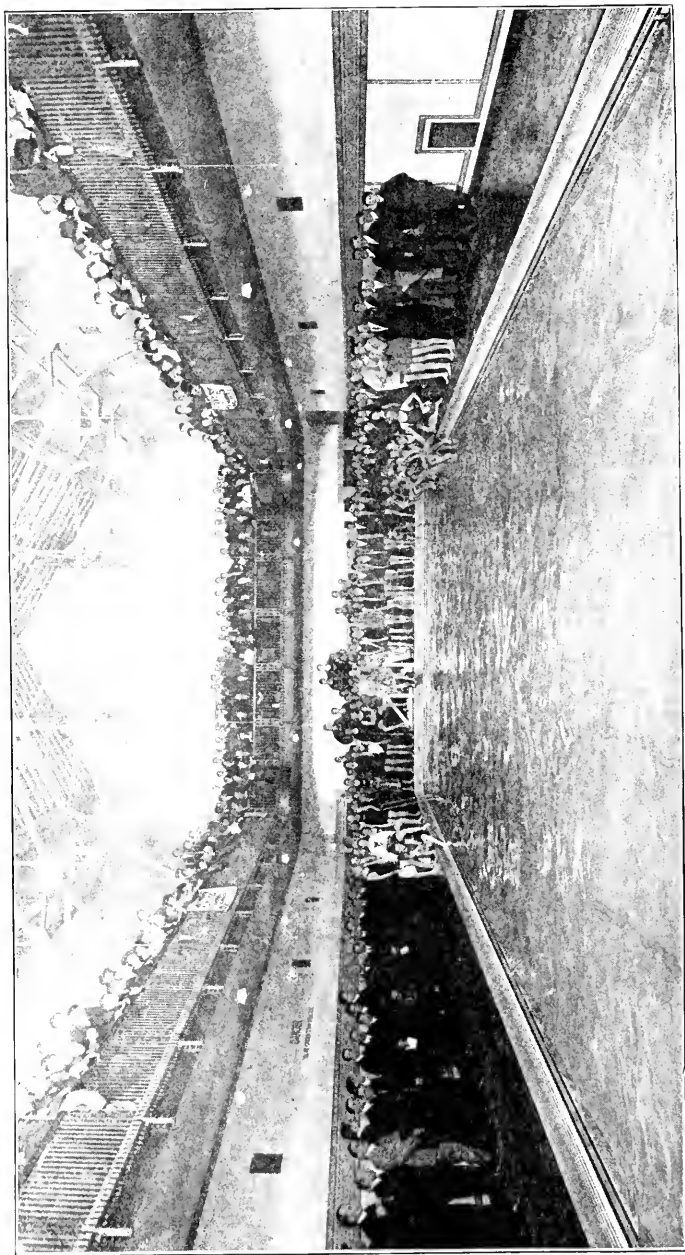
## STUDENTS' TICKETS

Half-fare tickets on the Boston Elevated Railroad may be obtained on applications issued at the school office on the first, sixth, and eleventh Fridays of each term.

The railroad systems entering Boston issue student's tickets to men under twenty-one years of age. Applications for these may be obtained at a railroad office and signed at the School office.

## GYMNASIUM

Students in the Northeastern Preparatory School may secure privileges in the Department of Recreation and Health at a special student's rate. There are also special rates for men who wish the use of the pool and showers during the summer months only. Particulars may be obtained at the office.



THE POOL

# NORTHEASTERN UNIVERSITY

## DAY SCHOOLS

### SCHOOL OF ENGINEERING

Four-year courses in Civil, Mechanical, Electrical, Chemical, and Administrative Engineering, leading to the degrees of Bachelor of Civil, Mechanical, Electrical, Chemical and Administrative Engineering. Conducted in cooperation with engineering firms. Students earn while they learn. Work conducted at Boston.

### SCHOOL OF BUSINESS ADMINISTRATION

Four-year course in Business Administration leading to the degree of Bachelor of Business Administration. Students may specialize in Industrial Management, Marketing, Finance, Accounting, and Sales Management. A two-year course leading to a Junior Certificate. Conducted on the Co-operative plan beginning in September, 1927. Work conducted at Boston.

## EVENING SCHOOLS

### SCHOOL OF LAW

(Co-educational)

Four-year course leading to the degree of Bachelor of Laws. Preparation for bar examinations and practice. High scholastic standards. A much larger percentage of graduates have passed bar examinations than of any other evening law school in New England. Work conducted at Boston, and in Divisions at Worcester, Springfield, and Providence.

### SCHOOL OF COMMERCE AND FINANCE

(Co-educational)

Five-year courses in Professional Accounting, Marketing, and Business Administration, with specialization in banking, finance, insurance, and other fields, leading to the degrees of Bachelor and Master of Commercial Science. Special two and four-year courses for those desiring intensive specialization. Work conducted at Boston, and in the Divisions at Worcester, Springfield, Providence, and New Haven.

## NON-COLLEGIATE SCHOOLS

### EVENING POLYTECHNIC SCHOOL

Three-year courses offered in the Evening Polytechnic School lead to a diploma in Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemistry or Structural Engineering. The work offered in these courses, while not as extensive as that leading to a degree, meets standard requirements. Students are trained for positions of trust and responsibility.

### NORTHEASTERN PREPARATORY SCHOOL

(Co-educational)

Courses in usual high school subjects leading to a diploma. Three sixteen-week terms each year. It is possible for students to meet college entrance requirements in from three to five years. Work conducted at Boston and in Divisions at Worcester, New Haven, and Providence.

### NORTHEASTERN AUTOMOTIVE SCHOOL

Courses in all phases of the automotive industry with special instruction for owners, salesmen, mechanics, and chauffeurs. Classes are conducted both day and evening.

### DEPARTMENT OF UNIVERSITY EXTENSION

(Co-educational)

A diversified program of short intensive courses in Blueprint Reading, Public Speaking, Practical Trade Mathematics, Mechanical Drawing, Estimating, Civil Service, English for Educated Foreigners, etc.

For further information concerning any of the above schools, address

NORTHEASTERN UNIVERSITY

316 Huntington Avenue, Boston, Massachusetts



**THE  
HUNTINGTON SCHOOL  
FOR BOYS**









THE  
HUNTINGTON  
SCHOOL  
FOR BOYS

*An Urban Private Day School*



320 HUNTINGTON AVENUE  
BOSTON, MASS.

## FOREWORD

*The faculty and the students of the Huntington School have developed co-operatively, over a period of years, a well-organized and unified school, in which they, and the physical equipment which they employ in the accomplishment of their tasks, are the outstanding factors.*

*This catalog sets forth in some detail what Huntington offers to the boys of Greater Boston as a result of that co-operative experience.*

*Within its pages we sincerely hope that our many friends, and the new friends whom we look forward to meeting and serving, will find such information as will be truly helpful in the solution of the very important problem: "What school can do the most for my son?"*

## BOARD OF GOVERNORS

ALBERT H. CURTIS, *Chairman*

GALEN D. LIGHT, *Secretary*

WILMAN E. ADAMS

ASA S. ALLEN

WILLIAM C. CHICK

WALTON L. CROCKER

ALBERT B. CURTIS

ROBERT G. DODGE

ARTHUR STODDARD JOHNSON

WILLIAM E. MACURDA

FRANK PALMER SPEARE

F. R. CARNEGIE STEELE

## FACULTY

CHARLES H. SAMPSON, B.S., Ed.M.  
(University of Maine) (Harvard University)  
*Headmaster*

ALBERT W. SWENSON, A.B., Ed.M.  
(Tufts College) (Harvard University)  
*Associate Headmaster*  
*Head of Modern Language Department*

SELDON L. BROWN, A.M.  
(Wesleyan University)  
*Head of Latin Department*

A. HARRISON EWING, A.B.  
(Harvard University)  
*English*

FREDERICK C. HOSMER, A.B.  
(Boston University) (Harvard University)  
*Head of Commercial Department*  
*Faculty Adviser — "Huntington Record"*

JAMES W. LEES, A.M.  
(Glasgow University)  
*Head of English Department*

ERNEST M. MOORE, A.B.  
(Bates College)  
*Director of Physical Training*  
*Mathematics*

JAMES H. MORSS, A.B.  
(Boston University)  
*Supervisor of Junior School*

WILLIAM S. SPENCER, A.M.  
(Harvard University)  
*English and History*  
*Supervisor of General Course*

FACULTY (*Continued*)

HAROLD C. WILCOX, S.B., S.M.  
(Rhode Island State College) (Brown University)  
*Head of Science Department*

PAUL R. BROWN, A.B.  
(Harvard University)  
*French*

PERCY E. JONES  
(Sloyd Training School)  
*Woodworking, Mechanical Drawing, Mathematics*

ARTHUR A. LABATT, L.B.  
(University of St. Joseph's College)  
*French and Spanish*

ARTHUR L. MILLER, A.B.  
(Hendrix College)  
*Psychologist and History*

ALFRED L. SKINNER, A.B.  
(Harvard University)  
*Mathematics*

GEORGE P. TEMPLE  
*Assistant Director of Physical Training*

JOHN G. LARSSON, M.D.  
*School Physician*

EMILY V. S. RAMSAY  
*Executive Secretary*

JEANNE A. HODGINS  
*Secretary to the Headmaster*

JESSIE L. JENKINS  
*Bookkeeper*

# CALENDAR

1926-27		1927-28
SEPT. 22	School Year Begins	SEPT. 22
NOV. 25	Thanksgiving Day	NOV. 25
DEC. 17	Close of Fall Term	DEC. 16
JAN. 3	Winter Term Begins	JAN. 3
FEB. 22	Washington's Birthday	FEB. 22
MARCH 25	Winter Term Closes	MARCH 25
APRIL 4	Spring Term Begins	APRIL 4
APRIL 19	Patriots' Day	APRIL 19
MAY 30	Memorial Day	MAY 30
JUNE 3	Commencement	JUNE 2
JUNE 6-17	Special Program for College Board Students	JUNE 5-17

---

Summer Term for 1926 begins July 6

Summer Term for 1927 begins July 5



## THE IDEAL HUNTINGTON BOY

By

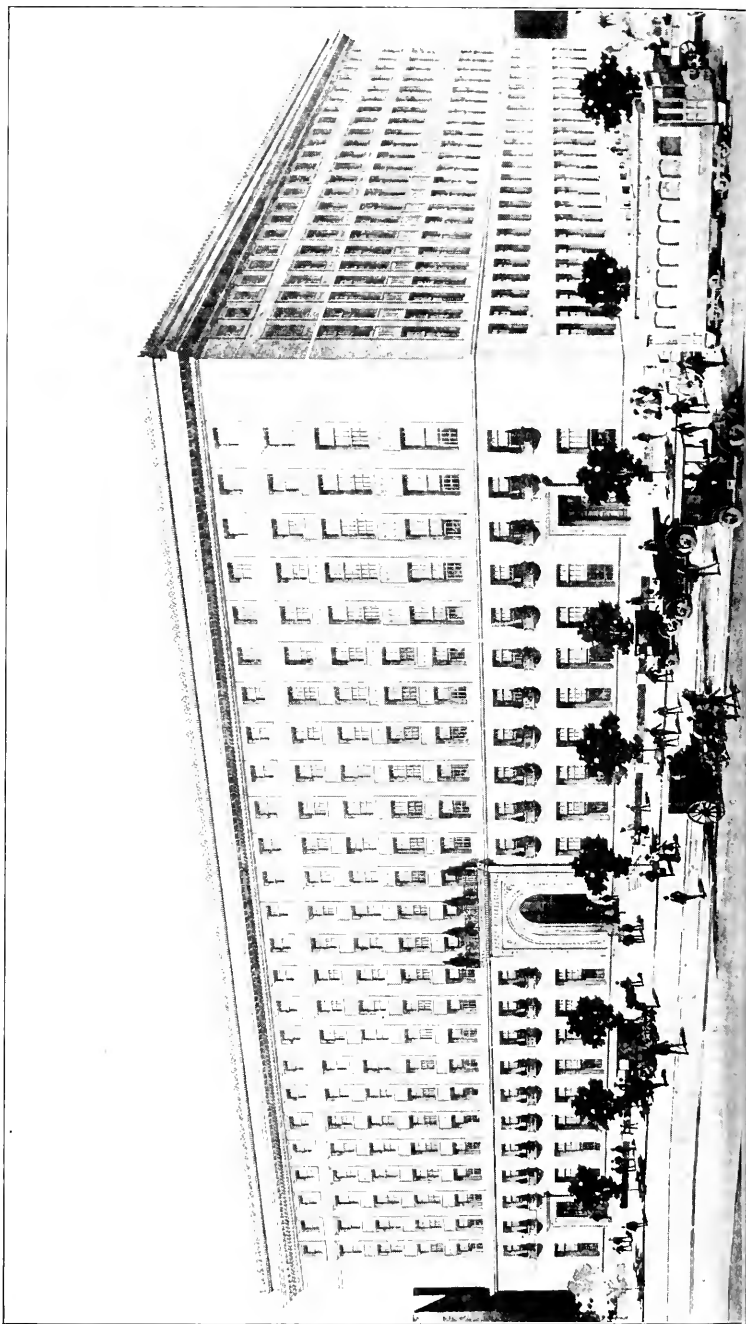
JOHN M. TROUT, JR., '24

THE finest and most inspiring spirit which pervades a boys' school is the spirit of budding manhood. It is always present, in the laughing faces in the corridor, in the busy hum of the classroom, in the set, fighting faces of athletes on the field or in the gymnasium. To those who seek to aid in guiding these lads through the ever-wandering paths of youthful interests and fancies, this spirit is a most precious treasure to be guarded and nourished until it blossoms into all the splendor of full manhood. And each of these lovers of boys has his ideal of youth; the kind of a lad he wants his son to be, if he has one, the kind of a lad he is always seeking, if he has none of his own.

What a lad this ideal boy is! He is not a child, he is not a man; he is in those wonderful transition years, when life begins to open out and prospects begin to broaden in his youthful vision. In his bearing even now he shows something of that splendid virility which is the glorious heritage of every lad. There is a smile on his open, frank face. His hand is always ready and his grip is firm. He is clean, honest, and upright, loved by teachers and fellow-students alike. He is bright, but never impertinent, always courteous; and he has, for all his boyishness, a subtlety which can only be sensed, and which draws for him respect from all whom he meets. He is morally strong, but never a prig; physically strong, but never a bully; a good athlete, but vaunts it not; a good student, he is never a "grind." He has a cheery "hello" for everyone; and every fellow considers his acquaintance an honor. He never fails when he is called upon for service; he plays a prominent part in student life, and he is deeply interested in the activities of his school. One may call him a "good all-round fellow."

For years now Huntington has been sending the world young men, bringing with them all the hopes and joys of youth. Some of these lads have succeeded, others, perhaps, have not. Some are still completing their preparation for the struggle of life, others nobly laid down their task unfinished for a greater purpose. Of all who have gone from these halls, is there one who can be rightfully called the Ideal Huntington Boy? There is he is fortunate beyond all others; if such a lad has not gone out into the world from our school, may the future bring him to us, and may Huntington proudly send him forth, the incarnation of her spirit!

*Note: — Written for the 1924 Periscope, the Huntington Year Book.*



THE HUNTINGTON SCHOOL was established in September, 1909 for the purpose of providing special training for boys of Greater Boston who needed specialized assistance such as the public schools did not afford. This training came from a generous offering of courses which included college preparation as one of its objectives.

With the passing of the years fathers and mothers made it very apparent that Greater Boston needed a first-class private day school which would present a strong college-entrance program, in an environment where Christian character is emphasized, and, at the same time, allow their boys to remain under the direct influence of the home.

Huntington is supplying the response to that demand today. Our boys come from all points in Boston and the surrounding cities and towns, and at times we have students who commute from as far as Worcester, Providence, and Manchester, N. H.

In addition to our college-entrance program we have splendid opportunities for those who desire secondary education of substantial force, and who wish to go directly into business rather than to enter college.

Huntington is today the only urban private day school in Boston which presents an all-round program.

Huntington students have every opportunity to attain a sound and well-developed body, strong character, and independence of thought, through daily association with well-rounded Christian men, in their studies, sports and general school life.

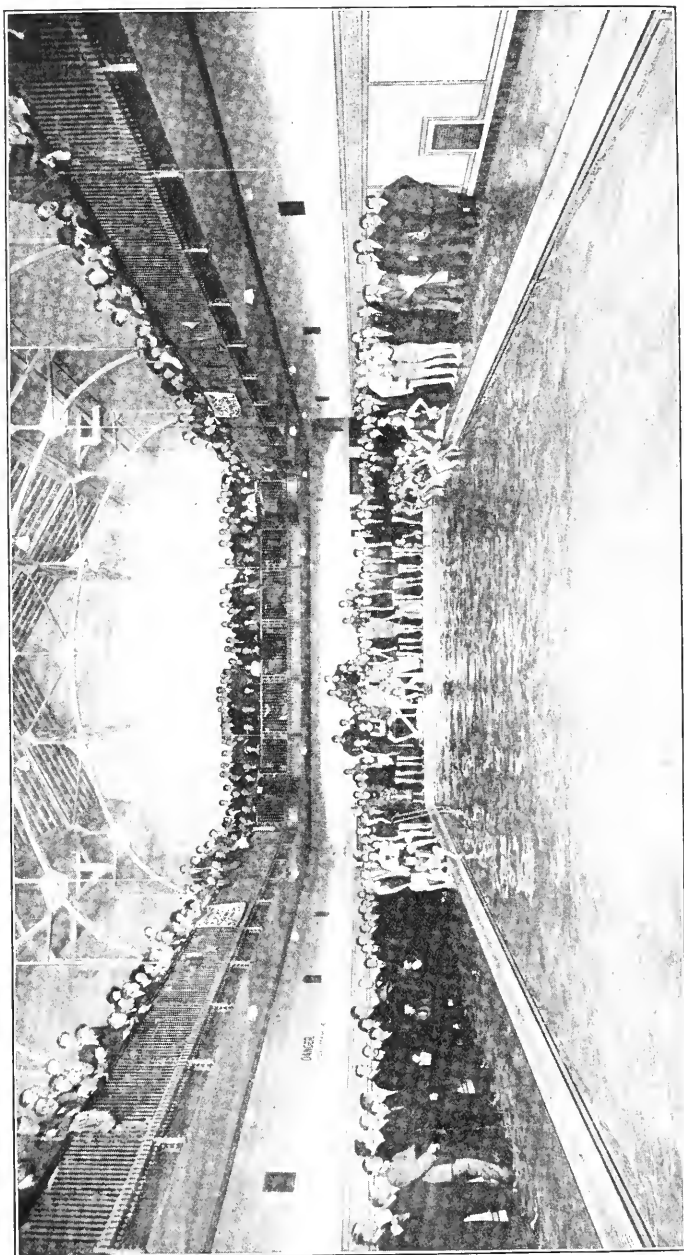
Graduates of Huntington are found in Harvard, Massachusetts Institute of Technology, Dartmouth, and practically all New England colleges, some having gone beyond the boundaries of New England to Princeton, and as far west as Leland Stanford University on the Pacific coast. Those who have finished school life are successfully meeting the demands made upon them as constructive citizens in the communities in which they live.

## LOCATION

The school is located at 320 Huntington Avenue in the educational and cultural center of Boston. It is within easy reach of all points in Greater Boston. The running time by surface cars from Back Bay Station is five minutes — an easy walk for the boys, and the cars from North Station by way of Park Street reach the school in twenty-five minutes. For those who use surface cars only the school is ten minutes from Park Street in the Tremont Street Subway and a few minutes from Massachusetts Station in the Boylston Street Tunnel.

## BUILDINGS

The school uses the buildings and equipment of the Boston Young Men's Christian Association. The part of the plant constructed espe-



only for educational work includes practically one-half of the entire floor space of all the buildings. The white line shown in the half-tone on page 8 outlines the floors where the classrooms and laboratories are located. Besides the section indicated in the cut the school uses part of a large building in the rear of the main building, the assembly hall, the gymnasium, the swimming pool and the libraries.

**RECITATION BUILDING** The recitation rooms are located on the second, third, and fourth floors of the section outlined. There are twenty classrooms, each with a seating capacity of about twenty students. Here are located, besides the recitation rooms, the physics and chemistry laboratories and the drawing rooms.

**SWIMMING TATORIUM** The swimming pool, seventy-five feet long by twenty-five feet wide, has a glass roof admitting plenty of light and sunshine. It is supplied with filtered salt water from an artesian well and is heated to a proper temperature by an elaborate system of pipes. It is one of the finest in New England. The school has special hours reserved in the pool for its general swimming work.

**GYMNASIUM** In the rear of the main building, and closely connected with it, is the Samuel Johnson Memorial Gymnasium, the largest indoor gymnasium in Boston. On the main floor is the gymnasium proper, equipped with the best of apparatus. The running track which encircles it fifteen feet above the floor level is twelve laps to the mile. A visitors' gallery on the same level seats 500. A special locker room, shower baths and special exercising rooms are on the floor beneath the gymnasium proper. The Huntington School has the use of the entire gymnasium area and equipment at definite scheduled periods.

## EQUIPMENT

**CLASS ROOMS** The class rooms are of standard size. They are equipped with tablet arm chairs or school desks.

**LABORATORIES** The school is especially fortunate in having laboratories for physics and chemistry well equipped for conducting its science courses.

**LIBRARY** The school has excellent facilities for study in the libraries and reading rooms.

**DRAWING ROOM** There is a well lighted and properly equipped mechanical drawing and free-hand drawing room for the use of students in the manual arts courses.

**WORKSHOPS** A liberal amount of equipment has been provided for courses in woodworking.

## PLAYGROUNDS

The Huntington School has purchased an athletic field of approximately five acres in the Longwood section of Brookline, one and one-half miles from the school building. Here are facilities for football, baseball and track. A suitable field house has been constructed and altogether it is one of the best athletic fields in Greater Boston. In addition to these grounds there are available at the school building four well constructed tennis courts, jumping pits and other facilities for games and sports.

## BOATHOUSE

The school has the use of a boathouse on the Charles River in which are housed one eight-oared shell, two four-oared shells and a launch.

## SCHOOL BUS

A large bus seating thirty-five is used to transport the boys to the Brookline playfield and to the Charles River boathouse. The shortest drive to the playground is over Riverway Drive, a broad, level boulevard.



*Crew Practice on the Charles River*

## GENERAL INFORMATION

### ADMISSION

Parents or guardians who wish to enter their boys in the school should apply to the Headmaster for blank forms.

The school requires testimonials of good moral character of all students. It is expected that no boy will apply for admission whose conduct at other schools has brought him discredit.

The school enrolment is limited to three hundred boys.

Registration before June 1 results in advantage to the student as special attention to his particular needs is made possible.

A registration fee of five dollars must accompany the application. This fee is in addition to the regular tuition charge.

Boys are accepted for admission to all grades from the seventh through high school.

### ENTRANCE EXAMINATIONS

The school reserves the right to give examinations if such a procedure seems advisable. These examinations may be oral or written; they may be in the form of psychological tests.

The policy of the school is a liberal one as it governs entrance requirements. Often boys are allowed a trial because of previous records and are admitted without examination.

### CLASSIFICATION

In the four upper Forms a boy is classified according to the credits that he has earned.

Boys are accepted for the two lower Forms (seventh and eighth grades) on the basis of previous records and, if necessary, because of results obtained in examinations.

### GRADUATION REQUIREMENTS

Students in the Huntington School are obliged to meet certain requirements as regards length of time in attendance, scholastic standing, and course of study, before a diploma can be awarded.

Diplomas are granted from two courses, namely, College Preparatory and General.

#### COLLEGE PREPARATORY DIPLOMA

No student will be graduated with the College Preparatory Diploma unless he can produce evidence of having received either in the Huntington School, or some other accredited school, B grades or better in at least eight units of work. Fifteen units are required for graduation. In the remaining seven units no grades less than C are acceptable. Eight units of work passed in approved college entrance examinations are accepted

instead of the B requirement mentioned above. A unit of credit is given for each subject taken five periods a week throughout the school year or the equivalent thereof. Four years of English, however, count as three (3) units. At least four (4) units of work must be completed in the Huntington School.

#### GENERAL COURSE DIPLOMA

No student will be graduated with the General Course Diploma unless he can produce evidence of having received, either in the Huntington School or some other accredited school, fifteen units of credit. A unit of credit is given for each subject taken five periods a week throughout the school year or the equivalent thereof. Four units of English, however, count as three (3) units. At least eight (8) units of work must be completed in the Huntington School.

All subjects must be passed with a grade of C or better.

### COURSES OF STUDY

#### CLASSICAL COURSE

College Preparatory Diploma Course in Preparation for a Liberal Arts College.

#### Required:

College Preparatory English . . . . .	3 units
Algebra . . . . .	2
Plane Geometry . . . . .	1
French or German . . . . .	2
Latin . . . . .	2
Physics or Chemistry . . . . .	1
U. S. History . . . . .	1

12 units

#### Elective:

The remaining three units may be selected from the following:

European History . . . . .	1 unit
Ancient History . . . . .	1
Trigonometry . . . . .	$\frac{1}{2}$
Solid Geometry . . . . .	$\frac{1}{2}$
French . . . . .	1
Spanish . . . . .	2
Latin III . . . . .	1
Latin IV . . . . .	1
Chemistry (if Physics has not been previously selected) . . . . .	1

The Liberal Arts Course prepares for entrance to such colleges and universities as Harvard, Yale, Dartmouth, Bowdoin, Amherst, Wesleyan



## SCIENTIFIC COURSE

College Preparatory Diploma Course in Preparation for a Scientific College.

This course is for those who contemplate entrance to such institutions as Massachusetts Institute of Technology, Cornell, University of Maine, etc.

*Required:*

College Preparatory English . . . . .	3 units
Algebra . . . . .	2
Plane Geometry . . . . .	1
Solid Geometry . . . . .	$\frac{1}{2}$
Trigonometry . . . . .	$\frac{1}{2}$
Physics or Chemistry . . . . .	1
U. S. History . . . . .	1
French, German or Spanish . . . . .	2

11 units

*Elective:*

Subjects may be selected from either the Required or Elective List the Classical Course to make up the necessary fifteen units.

## GENERAL DIPLOMA COURSE

The General Course prepares one to occupy a position in business life and also, if the right selection of subjects is made, to enter many colleges. A wide selection of subjects is possible but choice of many college-preparatory subjects should be made.

*Required:*

College Preparatory English . . . . .	2 units
General English . . . . .	1
Algebra I . . . . .	1
U. S. History . . . . .	1
Physics, Chemistry or Biology . . . . .	1

6 units

*Elective:*

The remaining 9 units may be selected from the following:

Ancient History . . . . .	1 unit
French, Spanish or German . . . . .	2
Chemistry . . . . .	1
Physics . . . . .	1
European History . . . . .	1
Plane Geometry . . . . .	1
Business English . . . . .	$\frac{1}{2}$
Commercial Arithmetic . . . . .	$\frac{1}{2}$

Bookkeeping .....	1
Commercial Law .....	$\frac{1}{2}$
Economics .....	$\frac{1}{2}$
History of Commerce .....	$\frac{1}{2}$
Civics .....	$\frac{1}{2}$
Mechanical Drawing .....	1
Music .....	$\frac{1}{2}$

or from any college-preparatory subjects offered by the school.

## COLLEGE CERTIFICATES

The school is on the list of accredited schools whose certificates are accepted by all the colleges of the United States that admit by this method. Certificates in single courses are issued only to those students who maintain a record of eighty per cent or better throughout the year.

## HOURS OF ATTENDANCE

The school is in session five days each week. Attendance on Saturday mornings may be required of students who need supplementary instruction, who are behind in their work, or who are called back for disciplinary reasons.

The daily hours of attendance are from 9 A.M. until 2.15 P.M., for boys in the three upper Forms (the Senior School). Recreational and extracurricular activities are held after 2.15.

Junior School boys remain until 3 P.M., except on Fridays.

*The Junior School Schedule is as follows:*

9.00- 9.15	Assembly
9.15-12.15	Recitations
12.15-12.45	Lunch
12.45- 1.30	Recitation
	{ Physical Training, Games, etc., every day except
	{ Friday during fall and spring terms.
1.30- 3.00	{ During winter term this period is used for Physical
	{ Activities, Dramatics, Clubs, etc.

## EXAMINATIONS

Examinations are held at the close of each term. Boys who fail examinations must make up the deficiency within a reasonable time or enter a lower Form in the subjects failed.

The following is the marking system used by the school:

- A, 90% to 100%
- B, 80% to 90%
- C, 70% to 80%
- F, Below 70%, failure.

The passing grade is 70%.

## REGULATIONS

The co-operation of all parents in the enforcement of regulations is requested. Each boy is expected to be punctual in his attendance upon every school exercise. Dismissing a student before the close of the school day interferes seriously with the school routine and with the student's advancement. Only in case of unusual urgency should such requests be made. Outside appointments should be made at a time when they do not interfere with the school work.

When a boy is entered at the school it is understood that his attendance is controlled by the school. Absence from school except for sickness will result in inconvenience to the student.

The school does not seek to enroll students who require severe restrictions. The right is reserved by the school to dismiss any boy whose conduct, influence, industry, or progress is unsatisfactory in the judgment of the Headmaster.

Tobacco is injurious to the growing boy and its use is forbidden on the school grounds, and in any place where boys appear as a school group.

## MORNING ASSEMBLY

Every morning all students assemble in Bates Hall for the purpose of taking part in a brief devotional program. At this time matters of general interest in the school life are presented to the students.

The school is non-sectarian but thoroughly Christian in the conduct of all its religious activities. Occasionally at this time educational talks of value are presented, and special programs are given by the boys, such as rallies, concerts, short plays, and speaking programs in observance of the holidays.

## LUNCH ROOM

A large lunch room is provided in the building. A satisfactory lunch may be had for from thirty to fifty cents.

## STUDENT ACTIVITIES

The extra-curricular activities of the boys include the publication of a weekly paper, the *Huntington Record*, and a year book, the *Periscope*; a Mandolin Club; an Orchestra; a Debating Club; a Dramatic Club; a Radio Club; a Manual Arts Club. The musical organizations unite in giving several concerts.

## REPORTS

Reports of the boys' work are sent home monthly. Work missed for any reason is marked zero until made up, when the grade obtained in making up the work is substituted. Weekly reports will be made on request of any parent.



## DETENTIONS

The school reserves the right to retain students after the regular hours, on Saturday, to make up back work, or for disciplinary reasons.

## SCHOLARSHIP HONORS

Three grades of honors for scholarship are conferred each month: "Highest Honors" upon all boys who have maintained a rank of A in all courses; "Honors" upon all boys who have not received a rank lower than B in all courses; "Honorable Mention" upon all boys who have received an average of B in all courses.

## SCHOLARSHIPS

A few scholarships are available for students of moderate means who possess exceptional ability and are otherwise acceptable to the school. Application for scholarships must be made on the regular form.

## SCHOLARSHIP AWARDS

Scholarship medals are awarded to the student in each Form in the school who maintains the highest rank during the year.

## HUNTINGTON HONOR SHIELD

The school awards annually a shield to the Huntington student who has done the most for the school during the current year. This award takes the form of the Huntington Honor Shield and is awarded by vote of the faculty.

## PARENT-TEACHERS' MEETINGS

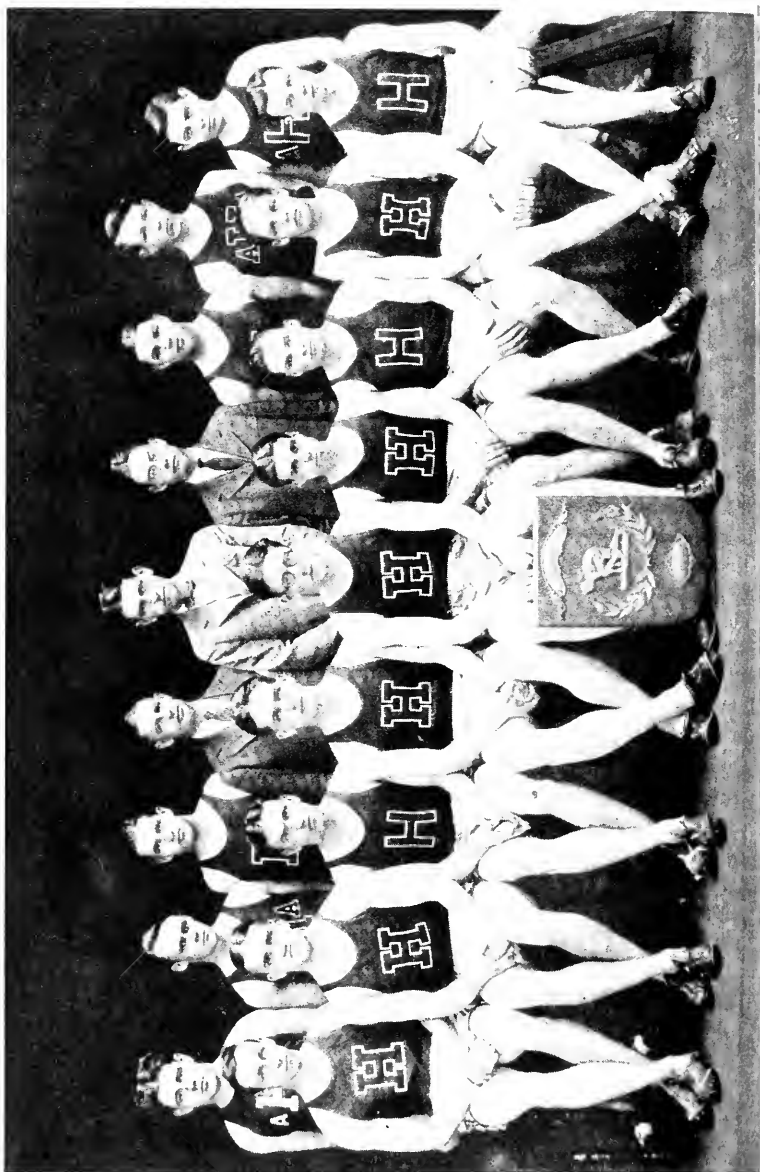
It is the policy of the school to seek the closest co-operation of the parents. Valuable aid in this direction is attained through various meetings of parents and teachers during the year. These meetings are in the form of private conferences with the teachers at fixed intervals, or general gatherings at which a speaker presents material of interest, after which tea is served and short conferences with the teachers are held.

## ALUMNI ASSOCIATION

Although the first class of Huntington was graduated in 1910 consisting of only one member and the first class of any considerable number was not graduated until 1913, yet the school has over 500 graduates, many of whom are now in the many colleges and universities of New England. A strong Alumni Association has been active for the past ten years.

## PHYSICAL TRAINING

Physical education may be defined as the process of developing the body in the right way. The policy of physical training in the Huntington



School is a broad one. We are not concerned exclusively with bodily development but rather general development. Accordingly we believe that the by-products of games and sports are of great importance. To secure the greatest benefits from a program of physical training the various squads must be under the direction of men who because of what they are and because of their leadership provide valuable character training as a result. It is a policy of the school to employ as coaches and directors of the varied program, men who are engaged in the mental instruction of the school. The whole school program is thereby unified and the ideals of the class room are carried to the playing field.

### PHYSICAL EXAMINATION

Before students are assigned to physical work, they are given physical examinations. The examiner advises as to the kind of exercise best suited to the needs of each. All students physically able are required to take this work.

### SPORTS

Many different sports are offered each season, as, during the fall term, football, track, tennis and association football; during the winter term, basketball, indoor and outdoor basketball and swimming; during the spring term, baseball, track, tennis, soccer and rowing. Each sport is directed by a coach, who has had former experience in directing athletics.

### UNIFORMS — GYMNASIUM

It has been found advisable to have a uniform suit for gymnasium classes. New pupils, therefore, are requested not to get gymnasium suits before entering. Orders are taken in the Physical Department immediately upon the opening of the school in the fall.

### INDOOR FACILITIES

New schools have such facilities for physical training as are found at Huntington. The gymnasium with its running track, three basketball courts, wrestling room, special exercising room, handball courts, and bowling alleys, is one of the most complete in New England. The swimming pool under a glass roof, filled with filtered salt water, heated to the proper temperature, compares favorably with the best.

### OUTDOOR

The outdoor facilities are exceptional for a city school, making it possible to introduce many features common only to country schools. Adjoining the building is a large field equipped for athletics. Here are four tennis courts, outdoor gymnasium, basketball courts, jumping pits, board track, cinder track with a hundred-yard straightaway. We

are near enough to the Charles River to maintain a crew. The athletic field in the Longwood section of Brookline provides play fields for both major and minor sports.

### MAROONS AND BLACKS

To stimulate interest in athletics at Huntington, each boy is enrolled under one of the school color groups. These groups engage in athletic competition; the older boys against the older boys, and the younger boys against the younger. Every boy, therefore, participates in some athletic activity that works for his individual good.



*Out-door track practice is encouraged at Huntington. It is a form of physical activity that strengthens proportionately every muscle and organ of the body*



## COURSES OF STUDY

## JUNIOR SCHOOL

STUDENTS will select, with the advice of the Headmaster, twenty hours each year from the work offered in one Form, or, if necessary, from the work offered in one or more Forms. Only the student of exceptional ability will be permitted to take more than a normal schedule of hours.

## FORM I

ENGLISH	Fundamentals of Grammar. Oral and written composition correlated with the other school work and based upon school experiences of the pupil. Special emphasis upon the development of the sentence sense. Directed reading from a wide range of modern as well as classical writers. Preliminary diagnostic tests with individual work based upon the results of the tests. (4)
MATHEMATICS	The fundamental processes of Arithmetic. Fractions, elementary decimals, percentage and mensuration, simpler practical applications. (4)
SOCIAL STUDIES HISTORY GEOGRAPHY CIVICS	The social studies are so correlated as to contribute towards the understanding and the intelligent solution of contemporary social and industrial problems. Their limits as well defined fields of knowledge are recognized, but through the problem and the topic method subject matter boundaries are frequently ignored. (5)
SCIENCE	The problems of science are organized about two major topics: "The air and its relation to every-day life" and "water and its uses." (3)
MANUAL ARTS	The course includes woodworking, mechanical and freehand drawing. Emphasis is laid on actual productive work. (3)
HYGIENE	Emphasis is placed upon the formation of good health habits as they can be developed by projects in personal, school and community fields.
MUSIC	. . . . . (1)

## FORM II

ENGLISH	Grammar, composition, the development of paragraph. Wide range of reading; fiction, biography, travel, to develop a taste for leisure reading. Use of English as a tool in letters, expositions, etc. Diagnostic tests and work based upon their results.
MATHEMATICS	Application of the principles taught in Form I to percentage and mensuration. Drill in simple algebraic processes, and solution of simple problems by means of elementary equations.
FRENCH	Practice in conversational French, with emphasis on pronunciation; the acquirement of a vocabulary; the knowledge of conversational idioms; rudiments of formal grammar.
SOCIAL STUDIES HISTORY GEOGRAPHY CIVICS	This course is a continuation of the work of Form I. In Form I and Form II the content material of the essentials of Geography, Elementary United States History and Civics are covered not as three courses but rather as a correlated program of Social Studies. The problem and project method of instruction is used.
SCIENCE	The chief topics are "The use of machines and electricity in every-day life," "The earth and its relation to the other astronomical bodies," "The earth's crust," and "Life on the earth."
MANUAL ARTS	The course includes woodworking, mechanical drawing, freehand drawing; cabinet-making and pattern-making from drawings made by the pupils.
PENMANSHIP	A course in modern business writing taught through the medium of spelling and business letters.
MUSIC	. . . . .

## FORM III

ENGLISH	Drill in grammar, punctuation, and spelling. Complete study of the sentence. Study of elementary composition. Special attention to the development of good taste in reading. Class study of narrative from the Old Testament, A Selection of English Ballads, Stevenson's <i>The Black Arrow</i> . Individual reading of at least four books selected from the College Board List.
---------	--

MATHEMATICS	Algebra and introduction to Geometry. The fundamental operations are thoroughly covered and in addition, stress is laid on a sound preparation for the college-preparatory courses in Algebra and Plane Geometry. (5)
FRENCH	COURSE 1. A first-year course in French. A study of grammar; reading of easy French, composition and conversation. (5)  COURSE 2. This course is open to pupils who have studied French for one year in a course where the emphasis was on reading and conversation. Pupils who studied French in Form II take this course. (5)
LATIN	A first-year course in Latin designed for the student who will complete Elementary Latin (two units) in two years. The contents, such as given in Smith's Elementary Latin, is covered. (5)
SPANISH	A course for beginners: careful drill in pronunciation, the rudiments of grammar and syntax, reading of easy prose and verse. (5)
HISTORY	A general survey of the history of the world is given to provide a suitable setting for history courses of subsequent years. (3)
SCIENCE	This is a course in general biology. The aim is to present the facts and principles of biology in such a way as to instruct the pupil in personal hygiene, the nature and control of contagious diseases; the improvement of home and civic conditions; the interrelations of plants and animals, their economic values and methods of improving them; our important wild life; the conservation of natural resources; and the enjoyment and appreciation of outdoor life. (3)
MECHANICAL DRAWING	Lettering, geometrical problems, orthographic projections. (3)
MANUAL ARTS	Bench work in wood, speed lathe work. Actual productive work. (2)

## SENIOR SCHOOL

### FORM IV

ENGLISH	Continuation of work of Form III in grammar, punctuation, and spelling. Complete study of the
---------	---

	paragraph, elementary composition. Class study Shakespeare's <i>Merchant of Venice</i> , Tennyson's <i>Idyll of the King</i> , Eliot's <i>Silas Marner</i> , Scott's <i>Quentin Durward</i> . Individual reading of two modern novels and at least four books from the College Entrance Board List.
MATHEMATICS	The five books of Plane Geometry according to accepted standards. Emphasis on original problems and practical applications. The course covers the College Board requirements.
LATIN	Careful translation of four books of Caesar's <i>Gallic War</i> and sight reading in Caesar, Nepos, or Tacitus. Further study of grammar and Latin composition. Prepares for Two-year Latin examination.
FRENCH	Continuation of the formal study of grammar and irregular verbs. Composition and translation of increasing difficulty. Conversational French. Preparation for Elementary French examination of the College Board.
SPANISH	Reading from 200 to 250 pages. Practice in translating from Spanish to English and vice versa. Continued study of grammar, dictation, training in vocabulary and forms. Prepares for Elementary Spanish examination.
HISTORY	Brief view of the Eastern nations, with emphasis on their civilization. History of Greece to the breakup of Alexander's empire, with special attention to political, intellectual and artistic development. History of Rome to the death of Charlemagne, emphasizing the development of the Roman legal system and the Christian church.
ELECTIVES	Certain electives are open to students at this point who do not plan to continue their education beyond the secondary school stage or are preparing for a higher institution whose entrance requirements do not conform to those of the traditional institution.

## FORM V

ENGLISH	Continued study of rhetoric and composition. Extemporaneous speaking and discussion. General survey of the literature of the eighteenth century. Class study of <i>The Golden Treasury</i> , Book III, Scott.
---------	---

*Lady of the Lake*, Irving's *Sketch Book*, Addison's *Spectator Papers*, Stevenson's *Treasure Island*, Shakespeare's *Julius Caesar* and *The Tempest*, a modern novel, modern short stories, a modern play. Individual reading of at least four books from the College Entrance Board List. (5)

# MATHEMATICS

Review of Elementary Algebra with more difficult problems. Simultaneous quadratic equations with applications, variables, progressions, the binomial theorem and logarithms. This course prepares for the Elementary Algebra examination and is valued at two units for college entrance. (5)

# LATIN

Study of Cicero's *Citizenship of Archias*, *Manilian Law*, and the four orations against Catiline. Sight reading of selections from other works of Cicero. Continued study of composition and grammar. Prepares for Three-year Latin examination. (5)

# FRENCH

More intensive study of French grammar with irregular verbs, composition, extensive reading of French. This course prepares for the Intermediate French examination. (5)

# GERMAN

A beginners' course. Drill in pronunciation and the rudiments of grammar. Exercises to fix in mind the forms and to cultivate readiness in translation. Reading of easy German. (5)

# SPANISH

Spanish courses offered in Form III and in Form IV are open to students of this Form. (5)

# HISTORY

*European History*. College-preparatory course in European History from the death of Charlemagne to the present time. The contribution of the Roman Empire, the Germanic nations, the Mohammedan and the Christian Church and Mediaeval civilization. (5)

*English History*. College-preparatory course from earliest times to the present day. Emphasis on the important epochs and movements, on the tracing of developments, on the securing of clear comprehension of the more influential personalities, and on the showing of relations of English history to the history of other countries, especially that of the United States. (5)

*Note*:—*European and English History* are given in alternate years.

SCIENCE	A standard college-preparatory course in chemistry. Lectures, recitations, laboratory experiments, with reference to practical applications of chemistry to everyday science and industry.
ELECTIVES	Certain electives are open to students who do not plan to continue their education beyond the secondary school stage or are preparing for a higher institution whose entrance requirements do not conform to those of the traditional institution. These are Mechanical Drawing, Architectural Drawing, Machine Drawing, Bookkeeping, Economics, Commercial Law, Commerce and Industry, Public Speaking and Salesmanship.

### FORM VI

ENGLISH	Oral and written composition. General survey of English literature from Shakespeare to the present day. A detailed study of the literary types. A careful study, extending through the year, of the class selected by the College Entrance Board. For 1927-1928, Shakespeare's <i>Macbeth</i> , Milton's <i>L'Allegro</i> , <i>Penseroso</i> , <i>Comus</i> , and <i>Lycidas</i> , Macaulay's <i>Life of Johnson</i> , Arnold's <i>Wordsworth</i> , with a selection from Wordsworth's poems.
MATHEMATICS	Solid Geometry. The standard content of the first two books of Solid Geometry. Plane Trigonometry. The college entrance requirements in the subject are covered. Elementary Algebra. A one-hour course for students who have completed elementary algebra but have not taken an entrance examination, or for students who wish a comprehensive review of the subject.
LATIN	Careful reading of the required amount from the works of Virgil and Ovid. Critical study of the prescribed reading. Sight reading and appreciation of style. Continued study of composition and grammar. Prepares for Four-year Latin examination.
FRENCH	Continued study of grammar and composition. Extensive reading from French classics.
SPANISH	Spanish courses offered in Forms III and IV are open to students in this Form.

GERMAN	Continued drill in grammar and syntax. Exercises in writing German from texts and dictation. Reading of German prose and poetry. Preparation for Elementary German examination of the College Board. (5)
HISTORY	Advanced course in American History. Particular emphasis on important movements and problems of the present day. (5)
PHYSICS	The standard college-preparatory course in Physics, dealing with the phenomena of mechanics, heat, electricity, sound, and light. Lectures, recitations and fifty laboratory experiments. Mathematical problems and discussion of practical applications. (5)
ELECTIVES	Certain electives are open to students who do not plan to continue their education beyond the secondary school stage or are preparing for a higher institution whose entrance requirements do not conform to those of the traditional institution. These are Mechanical Drawing, Architectural Drawing, Machine Drawing, Bookkeeping, Economics, Commercial Law, Commerce and Industry, Public Speaking, Salesmanship.

## GENERAL COURSE

As explained under GRADUATION REQUIREMENTS certain elections may be made that will count for graduation in the General Course other than those required for graduation from college. Such elective subjects are outlined below:

APPLIED MATHEMATICS	A course in practical mathematics covering the range of theoretical mathematics including arithmetic, algebra and geometry with such sections of higher mathematics as have already been introduced. The boundary lines between the various traditional fields of mathematics are eliminated. (3)
ECONOMICS	A study of the principles outlining modern business and industrial conditions. Present day problems including transportation, public ownership and control, and taxation. (3)
COMMERCIAL LAW	The principles of business law, including contracts, sales, negotiable instruments, agency, partnerships and corporations. (2)

BOOKKEEPING	The elementary principles of double-entry bookkeeping, short exercises in recording business transactions, in taking trial balances and closing books; carefully-prepared sets which illustrate modern bookkeeping practices.
BUSINESS ARITHMETIC	Problems in arithmetic sufficient to meet the needs of the student in elementary bookkeeping; especial attention paid to percentage, interest, bank discount and commission. Rapid calculation.
HISTORY OF COMMERCE	A history of the changes that have taken place in industrial organization and their effects upon commerce; a survey of commerce and the commercial policy of nations; emphasis on modern conditions.
PENMANSHIP	A series of exercises and drill for the mastery of muscular movement; instruction in position, speed and form. Drill on figures, business signs, and symbols.
SPELLING	. . . . .
PUBLIC SPEAKING	. . . . .



## HUNTINGTON SUMMER SCHOOL

The summer session of the Huntington School opens on the first Monday in July and continues to the first Friday in September.

The aim of the school is to provide tutoring and class instruction for those who are conditioned in grammar school, high school or college subjects; for those who wish to complete a four-year high school course in three years; and for those who wish to make special preparation for entrance examinations to New England colleges.

The program of work includes all the courses accepted for admission to colleges, together with work usually given in the seventh and eighth grades.

The teaching force is made up of the men of the regular school faculty.

The Huntington Summer School was established in 1914 and since that time has prepared hundreds of students for entrance to Harvard, Yale, Dartmouth, Boston University, Tufts, Massachusetts Institute of Technology, Bowdoin, Amherst, Brown, Massachusetts Agricultural College, and other institutions.

The class sections range from five to ten. The program of work is so arranged that a year's work in any course, as ordinarily counted by high schools, is completed during the Summer Session. Students who elect work which they have not before attempted usually pursue only one or two courses. Those who are reviewing are limited only to the amount of work that they can do well.

The tuition rate for the summer term is \$50 for one subject; \$100 for two or more subjects, three-fifths payable upon entrance and the balance at the beginning of the fourth week. The registration fee is five dollars.

A special circular of this School will be forwarded upon request.



## REFERENCES

Applicants for admission to the school must furnish the names of three persons, not relatives, who are able to vouch for the character and ability of the student and the financial responsibility of the parent.

## FINANCIAL

The tuition rate in the Huntington School for all students is \$425 the school year.

The tuition fees are payable in advance; three-fifths at the date entrance, and two-fifths on or before January 1. Students entering before November 15 are charged from the beginning of the school year.

REGISTRATION FEE	A registration fee of \$5 is due from all new students when a place is reserved. When once paid, it will not be refunded. To insure a place in the school, registration should be made before September 1. When an applicant enrolls in the school, it is understood, unless otherwise specified, that he enrolls for the entire year, and is liable for the tuition for that period.
BOOKS AND SUPPLIES	All students buy their own books and supplies. This material can be purchased from the bookstore located in the building.
MANUAL TRAINING	The fee for students who take manual training is \$5 per year, to cover cost of supplies.
CHEMISTRY PHYSICS	Owing to increased cost of scientific supplies, in many instances five to ten times the cost in former years, a fee of \$10 will be charged all students taking either Chemistry or Physics.
RECORD AND PERISCOPE	All students pay a fee of \$5 for the weekly paper, the <i>Record</i> , and the student annual, the <i>Periscope</i> .
GRADUATION	All students graduated from the school are charged a graduation fee of \$10, which covers the cost of diploma and expenses incidental to graduation. All financial obligations to the school must be paid before a diploma can be awarded or credit given for work completed in the school.
DRAWING INSTRUMENTS	To save the student a cost of \$20 for drawing instruments and supplementary equipment the school will rent complete sets for \$5 per year.
STUDENTS' TICKETS	Students who live in suburban towns can secure railroad tickets at greatly reduced rates by applying at the office of the railroad. Students of the school are permitted to ride on the Boston Elevated Railway at payment of one-half fare.

# HUNTINGTON ALUMNI

CLASS OF 1910  
ESTERBERG, WILLIAM L.

CLASS OF 1911  
CURTIS, PAUL O.

CLASS OF 1912  
FARHI, JOSEPH  
MALKASIAN, NISHAN P.  
NEWCOMB, GARFIELD  
ODIORNE, KENNETH W.

CLASS OF 1913  
BOTT, W. LEE  
AER, ALFRED WORTHINGTON  
SOP, GEORGE L., JR.  
LOD, ROBERT E.  
CARTWRIGHT, PAUL  
MASON, ARTHUR D.  
TEH, ROYAL C.  
OD, THOMAS H.  
ADERMAN, JOHN D.  
ASON, FRED C.  
MACKILLOP, SAMUEL  
MARSILIUS, NEWMAN M.  
NILES, THORNTON F.  
\*QUALEY, JAMES EMERSON  
SMITH, RUSSELL B.  
SPEARS, EVERETT E.  
STEELE, ALFRED S.  
TAYLOR, HAROLD W.  
WATSON, FREDERICK A.  
WEST, FREDERICK

CLASS OF 1914  
EKE, JOHN HARTSHORNE, JR.  
EDNGA, BENJAMIN QUINT  
SOP, HARRY DUNCAN  
OUCHOFF, HENRY  
CARTLAND, WILLIAM HARVEY  
HMBERLAIN, NEWELL BURNAP  
URIE, WARREN GILBERT  
UTER, HIRAM EDWIN  
KEDGE, ADDISON ELWELL  
ARINGTON, ARTHUR E.  
ELLI, JOHN  
CDU, PAUL DUDLEY  
IGINS, ERNEST RUSSELL  
D'ANNA, NICHOLAS  
AKSON, ROBERT E.  
ER, FRANK STANLEY  
AISON, HAZEN FRANCIS  
LANGILL, HENRY PRAY  
MACDONALD, WILLIAM FRANCIS  
MANNY, CARLOS CONSTANTINE  
MILLER, ALAN  
MORSE, GILEAD D.  
\*NYE, RAYNOR BASSETT  
PARRETT, CHAUNCEY G.  
SALT, GEORGE EGERTON  
SKINNER, ROBERT ARTHUR  
SMITH, RODERICK B.  
TAYLOR, ANDREW WILLIAM  
TULLY, FREDERICK JOSEPH  
TUTTLE, WILLIAM  
WEBSTER, NORWOOD  
WERMUTH, EUGENE FRANCIS  
WHEELER, RALPH LORING  
WILKINS, HERBERT I.

Deceased

## CLASS OF 1915

AMES, AUBREY PAYSON	McCULLOCH, LAWRENCE
BAUCH, CHARLES EVERETT	MANNING, WARREN HAROLD
BAUM, GEORGE LOCKHART	MANSON, WARREN HUBERT
BIRD, WHITWORTH FONTAINE	MERRICK, ROBERT JONES
BLAKE, ROBERT AUSTIN	MONK, NEWTON
BRADLEY, ROBERT IVAN	O'CONNOR, ARTHUR MAXWELL
BURNHAM, CLIFFORD GORDON	O'HARA, SKIDMORE
COLLINSON, STANLEY EARL	PETERS, GRANT BRUNO HUGO
COOPER, RAPHAEL DUNHAM C.	PRATT, WALTER HENRY
CUSHING, ALBERT STANLEY	PROBERT, WALTER HANDFORD
CUTTING, RALPH CURTIS	ROBINSON, GEORGE WARREN
DAWES, BRADLEY STEVENS	ROMAN, JOHN BAPTISTE
EDMONDS, REGINALD WHITNEY	SAMPSON, GEORGE AUSTIN
ELLIOTT, JOHN TELFORD	SHANNON, CHARLES WILLIAM
FREEMAN, THOMAS LAWRENCE	SMITH, MINOT FULLERTON, JR.
GOLDSMITH, LLOYD EDWARD	SMITH, WILLARD FRANCIS
HODGES, FORREST EGGLESTON	STARBUCK, ROBERT BARKLEY
HOLLIDAY, HAROLD HOVEY	STEWART, HAROLD ARTHUR
JANES, HAROLD BIXBY	*TYLER, PHILIP PALMER
JONES, CERENO ST. CLAIRE	*VERDER, WALTER MONTGOME
LEONARD, WALTER GOULD	WESTWOOD, RICHARD WILBUR
LUNDQUIST, ARTHUR	ZIEGLER, CHARLES MELVIN

## CLASS OF 1916

ANTHONY, CARROLL GILMAN	MARLING, WENTWORTH J.
*BELL, CHARLES FRANK	MILLIGAN, RANDOLPH HALL
BOSSI, EUGENE ANTHONY	MOORE, WALTER CHADBOURN
BRAINARD, ROBERT FRIEND	MORRILL, CHARLES FREDERICK
CHESLEY, WOLCOTT ELLSWORTH	OSGOOD, CARLETON GUILD
CLEARY, ALEXANDER EDGAR	PARKER, ALBERT DINNIE
COBURN, JESSE THEODORE	PEDERSON, NICHOL ANDREW
COLLINSON, ARTHUR WILLIAM	POMEROY, RICHARD BRUCE
DEAN, EDWARD KEITH	RICH, EDWIN NEWELL
FLEMING, CARL LEON	RIPLEY, HUBERT GEORGE, JR.
FOWLER, ALBERT EDWIN, JR.	SEALE, WILLIAM ARNOLD
GODDU, LLOYD WHITMAN	SHUM, ALDEN FRANCIS
HADDOCK, CHARLES C.	STICKEL, PAUL JELLY
HATHAWAY, SAMUEL DEVEREAUX	SYMONDS, MILTON WARREN
JACKSON, LEON FARNHAM	TOOMEY, WILLIAM DANIEL
KIMBER, FRANK HUGHES	TRUE, OSMOND SMALLEY
KRONE, LESTER FREDERICK	WILLIAMSON, REGINALD CHAR

## CLASS OF 1917

BARR, ALFRED THOMPSON	DAY, ROLAND WIGHT
BENEDICT, THOMAS HAROLD	DICKSON, ROBERT WEBBER
BOWEN, DAVID CUMMINGS	DRISCOLL, WILLIAM FRANCIS
CALDWELL, WELLINGTON LORD	FOSTER, KENDELL WILSON
CARPER, HAROLD GOODRICH	GILLETTE, CLIFFORD KEENE
CLARKSON, ERNEST DEWEY	GRAHAM, FRANCIS JOSEPH
CLENCH, WILLIAM JAMES	HARLOW, EARL KENNETH
CLEVELAND, THOMAS VOSE	HARPER, ELMER BRUCE
CREED, FRED NELSON	HARRIS, GEORGE BLANCHARD,

\*Deceased

HLT, GEORGE AUGUSTUS  
 HMANS, DONALD EDWARD  
 HNTINGTON, GILBERT GERRISH  
 JACKSON, HAROLD CUMMINGS  
 JEWELL, EDMUND FRANCIS  
 LAWRENCE, STANLEY DONALD  
 LARD, EDWIN AUGUSTUS  
 LEQUISTON, IRVING MATTHEW  
 MORSE, WILLIAM McQUILLEN  
 MINROE, RUSSELL FELTON  
 PEESTON, BURNHAM GODDU

REID, WILLIAM JOSEPH  
 SHEPARD, WINTHROP RUSSELL  
 SHORT, RALPH WILLIAM  
 SNOW, LAWRENCE FORRISTALL  
 SYMMES, CHANDLER WHITING  
 TAFT, LORADO EDSON  
 TALMADGE, NELSON ALCORN  
 TUCKER, CHARLES WILLIAM  
 TURNER, FRANK BRUCE  
 WALKER, LOTHROP EARL  
 WHITE, EDWARD ALDRICH

### CLASS OF 1918

AERLEY, ERNEST LESTER  
 BANDON, ORVILLE GERRISH  
 CONNOR, JAMES EDWARD  
 COWELL, HOWARD GARDNER  
 FETS, ROSCOE WILLIAM  
 GLLAGHER, ERNEST FRANCIS  
 GANT, DONALD LIVINGSTONE  
 HELL, ELISHA WINTHROP  
 HENWAY, RALPH WALTER  
 HEMPHREY, ARTHUR ROSS  
 HNTINGTON, CHARLES EDWARD  
 HNEGAN, ELLIOTT CLIFTON, JR.  
 HGEN, THOMAS EWEN  
 HANCHESTER, PAUL

McLEOD, ROBERT CROFTON  
 MEHAFFEY, GRAHAM TYLER  
 MORRISON, JAMES MURRAY  
 MORSE, DAVID  
 PROUT, GEORGE RUSSELL  
 ROBERT, FRANCIS HAROLD  
 RUSSELL, CLARENCE WILSON  
 SHEPHERD, THOMAS ELWELL  
 STETSON, RICHARD PRATT  
 STRAUSS, JACK HECHT  
 SWAIN, KENNETH FOSTER  
 TAUSSIG, FELIX, JR.  
 WOLF, JACOB ROBERT

### CLASS OF 1919

AMY, ROBERT TILLINGHAST, JR.  
 ERKER, CHARLES KIMBALL  
 ELLINGS, RAYMOND MacKAY  
 EEN, THOMAS GEORGE, JR.  
 EOOKE, PERCY ALBERT  
 EOWN, LESTER ARTHUR  
 EUNS, RALPH FOWLER  
 EAVENPORT, ARTHUR WINTHROP  
 EIAN, ARTHUR SPROTT  
 EK, WILLARD BLAKE  
 ERLICH, LOUIS HECHT  
 EITES, WALTER EDWIN  
 EARNSWORTH, CHARLES LUKE  
 EYNN, BERNARD FRANCIS  
 ERANGER, DWIGHT LUTHER  
 ERAY, HENRY WARREN, JR.  
 EUTTERSON, LYMAN PEARSON  
 EALLERAN, THOMAS LEONARD  
 EOLMES, GEORGE HENRY, JR.  
 EUNT, ALBERT MERRILL  
 EUTTER, FRANK JACOB

LARRABEE, EDWARD NOBLE  
 LARRABEE, JOHN WHITFIELD  
 LIEBSCH, ELMER WILLIAM  
 MAIRS, DAVID KELSO  
 MORSE, LEONARD HENSHAW  
 MUIR, WILLIAM EDMUND  
 MYERS, NORMAN JOHN  
 PALMER, RICHARD STUART  
 PREBLE, CLARENCE EDWARD  
 REED, JAMES HENRY, JR.  
 SHERMAN, HOWARD FRANKLIN  
 SMITH, BENJAMIN LINCOLN  
 TATE, CHRISTOPHER  
 TRAUTVETTER, ROY WILLIAM  
 WATERS, HENRY COOK  
 WILLIAMS, FRED PAUL  
 WILLIAMS, ROBERT TASCO  
 WOLF, BERNARD MARK, JR.  
 WOOD, ABEL FARNSWORTH  
 YOUNG, PHILLIP TAYLOR

### CLASS OF 1920

EOWN, ROY SHEPARD  
 EYANT, HAROLD HURLBURT

CASSON, WESLEY COLLVER  
 CHRYSTAL, JOHN ELLIOTT

COOLEY, HOWARD HEWITT  
CRAIGIE, HUGH MEDEX  
DEDRICK, ALBERT CLINTON, JR.  
DODDS, HAROLD OSCAR  
DODGE, NORMAN LEWIS  
EATON, ELLIOTT FULLER  
FAUST, HERMAN OTTO  
FLEISCHER, THEODORE  
FORBES, JOHN WINSOR  
FRANKLIN, JOSEPH ALEXANDER  
FURFEY, ROBERT MORTIMER  
HERSEY, WALDON BRADBURY  
HOLLIS, WARREN THATCHER, JR.

JENKINS, ARNOLD DEIHL  
VON LADAU, KARL  
MORSE, MILTON ISAAC  
MUIR, ROBERT BRUCE  
PARKER, CARL STEPHEN  
\*RICH, HENRY A.  
STAPLES, PAUL EMERSON  
TAYLOR, NORMAN CHARLES  
WADE, EDWARD ALBERT  
WELLS, RALPH HORACE  
YOUNG, EDWARD JONATHAN, JR.  
ZARTARIAN, SARKIS MARDERO

# CLASS OF 1921

ARCHIBALD, CLARENCE H.  
BOGGS, HUBERT CLARE  
BOSWORTH, FREDERICK LYMAN  
BUCK, RICHARD CLARK  
CAREY, CHARLES ALFRED  
COHON, MORRIS  
COMFORT, ROBERT FREEMAN  
DORNAN, GEORGE MILLER  
GOODHUE, ALBERT BURNHAM  
GORRIARAN, MANUEL  
KEOUGH, JOHN JOSEPH  
KING, ROBERT GRAHAM, JR.  
KOELSCH, FREDERICK JOSEPH

LOKER, DONALD PRESCOTT  
LONG, FRANK JAMES  
MANNING, EDWARD MORGAN  
MARBLE, CECIL CARLTON  
PACKARD, GEORGE QUINCY  
PADELFORD, NORMAN JUDSON  
PIERCE, WENDELL FORSTER  
ROBINSON, RALPH MORRISON  
SHAPLEIGH, DAVID MILLER  
TEMPLE, GEORGE PRICE  
THORP, EDWARD GEORGE  
VINING, JOHN CARVER  
WETHERBEE, HAROLD BERKELEY

# CLASS OF 1922

ALDEN, ARTHUR HARRIS, JR.  
ALGAR, GEORGE EDWARD  
ANCTIL, JOSEPH ADOLPHE ALFRED  
APSEY, ROBERT STOKES  
BIGELOW, LOUIS KIMBALL  
BRENNAN, JOSEPH  
CASE, FRANK WHITNEY  
CLARKE, RUSSELL JAMES  
DRISCOLL, JAMES JOSEPH  
FLAHERTY, JAMES AMBROSE  
FORD, AUSTIN SAUNDERS  
GABRENAS, ANTHONY PAUL  
HALFACRE, WILLIAM ERNEST  
HENNEBERRY, HAROLD L.  
HOLMAN, RALPH D'ENTREMONT  
KEEFE, PAUL JOSEPH  
LEAVITT, ALBERT WILLARD  
LESLIE, GILBERT PRIEST

McISAAC, LLOYD JOHN  
MOLHOLM, HANS BARSO  
PICKENS, RUSSELL AUSTIN  
PRENTISS, WOODBURY S.  
RASTENIS, NADAS  
RICHARDSON, ROBERT WILLIAM  
ROSS, GEORGE DEWEY  
SMITH, AVON MARION  
STEWART, GORDON JAMES  
STEWART, ROBERT CHEVALIER  
STREETER, DUDLEY ARNOLD  
STUART, MAXWELL ABBOTT  
THOMAS, RANDOLPH S.  
TOBBEN, FREDERICK SHATTUCK  
VANOVERTVELDT, ALFRED  
WARDNER, GEORGE WALDO  
WIGHT, PERCIVAL ATHERTON

# CLASS OF 1923

ADAMS, JOHN DURRELL  
ALBIANI, SETTIMO JOHN  
BALL, WILLIAM B.

BIGELOW, ROBERT MANSFIELD  
BULLARD, EDWARD ALLEN  
CALLAHAN, PAUL

\*Deceased

C. FRAN, EVERETT S.  
 C. TIS, HARRY MELVILLE, JR.  
 D. LTON, PAUL LEO  
 E. GAN, WALTER FRANCIS  
 F. GAN, CLARENCE  
 F. R, EVERETT DEAN  
 F. KE, GEORGE FARRINGTON  
 G. ODWIN, EDWARD R.  
 H. ROLD, EDWARD J.  
 H. L, ALLAN SHERLOCK  
 I. NSON, RAYMOND E.  
 J. NE, MYLES JOSEPH  
 L. MON, ALFRED FRANKLIN  
 L. MAN, EDWARD CHESTER  
 M. cFARLAND, RICHARD  
 M. CLOUD, DONALD GOODING  
 M. AGOUN, ROGER

MORRELL, CHARLES JOHN  
 O'CONNELL, JOHN JEREMIAH  
 O'NEIL, RICHARD F., JR.  
 PARKER, CURTIS KIMBALL  
 PARKER, RALPH EDROY  
 PATRIDGE, LEONARD FOSTER  
 PERKINS, RALPH TAYLOR  
 PERSON, CARLTON GRANT  
 REILLY, GORDON GAUL  
 SCHEFFY, CARL  
 †SMITH, PARKER HEYWOOD  
 SPINNEY, WILLIAM ABORN  
 WAITE, FREDERICK  
 WILKINSON, RICHARD HILL  
 WILLIAMS, FRANCIS A.  
 WINTER, JAMES SCOTT, JR.

# CLASS OF 1924

D. AMS, ERNEST ALBION  
 H. WORTH, HARVEY EDMUND  
 B. KER, RALPH FARNUM  
 B. NSON, RICHARD, JR.  
 B. BLOIS, LAURIER SAINT JOHN  
 B. RNS, HOWARD WALTER  
 C. OLING, STANLEY HOLLOWAY  
 C. OTTY, GEORGE FRANCIS, JR.  
 C. E. RSON, HENRY MORSE  
 C. R. DINER, CHARLES LEONARD  
 C. ANSTROM, JOHN HENRY  
 C. REELY C. PHILIP  
 C. N. RAHAN, ARTHUR LAWRENCE  
 C. ANSON, ERIC WALDOMAR  
 C. ANSON, STANLEY PARKER  
 C. ARPER, JOHN EDWARD  
 C. ERSEY, WINTHROP PAGE

KNOX, ARTHUR STEWART  
 LIND, ALBERT WILLIAM  
 McINTIRE, DAVID PRIGMORE  
 McINTIRE, RAYMOND ANDREW  
 McINTYRE, JOSEPH WALTER, JR.  
 METCALFE, JOHN BROWNLOW  
 NEELON, HUGH CANNON  
 PARKS, JOSEPH ALOYSIUS, JR.  
 PERKINS, JOHN PERLEY  
 RICHARDSON, DONALD WEBB  
 SCHERESCHEWSKY, HARRY W.  
 SMITH, PHILIP LORING  
 STANTON, THOMAS FRANCIS, JR.  
 TROUT, JOHN MOORE, JR.  
 †WHEELDON, EDWARD STANLEY  
 ZAKON, DEXTER

# CLASS OF 1925

L. LBEE, RICHARD STEVENS  
 L. BCOCK, PAUL ALDRICH, JR.  
 L. EYER, ROBERT MILLIKEN  
 L. NGHAM, WHEELLOCK HAYWARD  
 L. ESSERT, FRED GEORGE  
 L. AINERD, HENRY BOWEN  
 L. NFIELD, LLOYD  
 L. IEVALIER, FREDERICK R.  
 L. OWELL, GEORGE ALVIN  
 L. NIELSON, ERIC WILLIAM  
 L. ONNELLY, FRANCIS JOSEPH  
 L. RRRINGTON, RALPH CURTIS  
 L. ITZGERALD, JAMES JOSEPH, JR.  
 L. EEMAN, JOHN EDWIN  
 L. ANT, FRED STANLEY, JR.  
 L. RRRIS, EDMUND SCOFIELD

LASKEY, LAWRENCE GORDON  
 MAHONEY, PAUL  
 †MULLIKEN, SAMUEL GYLES P.  
 O'BRIEN, PAUL JOHN  
 †OLIVA, VICTOR EDWARD  
 PERKINS, EDWIN NILES  
 ROSE, ELLSWORTH EDWARD  
 RYDSTROM, ARTHUR GORDON  
 SIDNEY, FREDERIC CONKLING  
 SMITH, ROBERT EDWARD  
 SPEAR, ELLIS, 3d  
 STEARNS, CHARLES LISCOM  
 WOOD, EVERETT ALDEN  
 WRIGHT, ANDREW MARK, JR.  
 ZAKON, EDWARD

Special certificate

THE COSMOS PRESS, 17  
HARVARD SQUARE  
CAMBRIDGE, MASS





9





NORTHEASTERN UNIVERSITY LIBRARIES DUPL



3 9358 01114027 1

NORTHEASTERN UNIVERSITY LIBRARIES



0-8196-0114-027 1